

#### FEDERAL EXPRESS

#### Marathon Petroleum Company LP

1300 South Fort Street Detroit, MI 48217 Telephone 313/843-9100

April 20, 2012

Ms. Wilhelmina McLemore MDEQ – Air Quality Division Cadillac Place 3058 West Grand Boulevard Suite 2-300 Detroit, MI 48202

RE: First Quarter 2012 Leak Detection and Repair, Wastewater VOC, and Benzene Waste NESHAP Certification and Compliance Report

Dear Ms. McLemore:

This report is being submitted by the Michigan Refining Division of Marathon Petroleum Company LP (MPC) to fulfill the requirements of:

- The fugitive and wastewater VOC emissions monitoring program for the first quarter of 2012. This report is required by Michigan Air Rule 622, U.S. EPA's New Source Performance Standards (NSPS), and the National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries. In addition, this report contains information required by Paragraph 20Oiic of the First Modification to the November 2005 First Revised Consent Decree (CD), United States of America et. al. v. Marathon Petroleum Company LP (MPC) (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008.
- The Benzene Waste NESHAPS Subpart FF Certification and Compliance report for the first quarter of 2012. This report is required by 40 CFR 61 Subpart FF and Paragraph 18.P.ii.b of the Consent Decree.
- January 2012 refinery installed a H2S scavenger additive system in the Rouge Tank Farm (Unit #38) that was required for the Barge Air Permit in order to meet H2S air limits. System installation included a chemical injection system for the H2S scavenger additive to the suction of the barge loading pumps, an isotainer for chemical storage, pumping system and safety shower. This system has been added to the LDAR monitoring program and will be monitored under GGGa.

The attached tables include information necessary for compliance with these requirements.

Table 1 lists MPC process units (NSPS VV Section 60.487 (c)(1)) and summarizes the process unit shutdowns that occurred during this quarter (NSPS VV Section 60.487 (c)(3)). Table 1 also includes the approximate number of components present in each unit at the beginning and ending of the reporting period (NSPS VV Section 60.487(c)(4)).

Table 2 lists the components found leaking and an exceedance summary for various pieces of control equipment or treatment processes during this quarter and the dates of repair (NSPS VV Section 60.487(c)(2) and 40 CFR 61.357(d)(7)).

Table 3 lists leaking components on delay of repair (NSPS VV Section 60.487(c)(2)). This information is also required by Paragraph 20.0.ii.c.2.f of the CD.

Table 4 includes information satisfying NSPS Subpart QQQ (Section 60.698(c)) requirements.

This table summarizes drain and junction box inspections that identified seals with low water level or other problems that could result in VOC emissions. In addition, subsequent corrective actions and/or repairs are identified. All required inspections for the QQQ standards have been completed as required.

Table 5 presents measures that MPC took to satisfy Paragraphs 20.O.ii.c.1 and 18.P.ii.b of the CD.

Table 6 lists specific monitoring information as required per Paragraph 20.O.ii.c.2.a-e of the CD.

Table 7 contains the certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61.357(d)(6).

Table 8 contains the exceedance summary for various pieces of control equipment or treatment processes as required in 40 CFR 61.357(d)(7) and 4 0CFR 60.692-5(e)(5).

Table 9 contains the End of Line calculation as required per Paragraph 18.K.iii and 18.P.ii.b of the CD. The refinery received written approval of the End of Line Sampling Plan on March 8, 2010.

Table 10 includes information satisfying Benzene Waste NESHAP Subpart FF (Section 61.357(d)(8)) requirements.

Ms. McLemore April 20, 2012 Page 3

This table summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified. Additionally, subsequent corrective actions and/or repairs are identified.

Please contact Ms. Kristen Schnipke (313) 297-4750 or Mr. Greg Shay (313) 297-6115 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc:

(2) U.S. EPA, Director of Regulatory Enforcement c/o Matrix Environmental and Geotechnical – *Federal Express* 

(2) Air and Radiation Division, U.S. EPA Region 5 – Federal Express (2) Office of Regional Counsel, U.S. EPA Region 5 – Federal Express

#### MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT AIR QUALITY DIVISION

#### RENEWABLE OPERATING PERMIT REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air

Quality Division upon request.

Source Name Marathon	Petroleum Company	LP			County _Wayne			
Source Address _ 1300 Sc	outh Fort Street			City	Detroit			
AQD Source ID (SRN) A9	9831	ROP No.	199700013c		ROP Section No.	01		
Please check the appropriate	hox(es):							
☐ Annual Compliance Ce		o Rule 213(4)	(c))					
1000 No. 10								
Reporting period (provide 1. During the entire re term and condition of w	porting period, this sour	rom ce was in com cluded by this	To	and co	nditions contained id to determine com	n the ROP, each pliance is/are the		
method(s) specified in	the ROP.							
term and condition of a deviation report(s). The	eporting period this sou which is identified and i le method used to deter ated and described on th	ncluded by the mine complian	s reference, EXCEPT ce for each term and	for the	deviations identified	d on the enclosed		
			10-500	350				
☐ Semi-Annual (or More	Frequent) Report Certi	ification (Pur	suant to Rule 213(3)(	c))				
Reporting period (provid	le inclusive dates): E	rom	То					
1. During the entire re			(7.57)	a require	ements in the ROP	were met and no		
deviations from these r	equirements or any other	er terms or con	ditions occurred.	groquire		noro mor and no		
<ul> <li>2. During the entire re deviations from these re enclosed deviation report</li> </ul>	porting period, all monitor equirements or any othe ort(s).	oring and asso er terms or con	ciated recordkeeping ditions occurred, EXC	equirem	ents in the ROP we	ere met and no ified on the		
Other Beneri Cartificati								
Other Report Certificati								
Reporting period (provide	보이지는 아이라 아르아들이 전쟁을 걸어가고 되자하고 튀었다.	rom 1/1/2	0.00000	3/31/20				
Additional monitoring rep								
	k Detection and Re	epair, Benz	ene waste NESHAP	and Q	QQ Report			
					was .			
I certify that, based on inform supporting enclosures are true	mation and belief forme	e		ements a	and information in	this report and the		
		MPC Investmen						
C.T. Case		its General Part Deputy Assistar			(313)	843-9100		
Name of Responsible Officia	I (print or type)		Title	2100	Phone	Number		
	Case				4-	24-12		
Signature of Responsible Office	cial				, [	Date		
* Photocopy this form as needed	i.				EOP	5736 (Rev 2-10)		

EQP 5736 (Rev 2-10)

Table 1
Component Summary - First Quarter 2012
Michigan Refining Division

				Appro	ximate Numbe	er of Compon	ents		
Complex	Unit	Description	Pui	nps	Val	ves	Compr	essors	Dates of Shutdown
	11 0000 0000	20-0-2 (0-0-0-0-24) (1999-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	12/31/2011	3/31/2012	12/31/2011	3/31/2012	12/31/2011	3/31/2012	
	4	Vacuum Unit	5	5	459	495	2	2	
1	5	Crude Unit	31	32	2,136	2,335	0	0	
	29	Wastewater Plant	17	16	729	729	0	0	
	7	Distillate Hydrotreater Unit	20	20	1,300	1,310	3	3	3/12-19/2012
2	8	Gas Oil Hydrotreater Unit	5	5	1,562	1,719	2	2	
	9	Alkylation Unit	29	30	2,063	2,081	1	1	
	11	Fluid Catalytic Cracking Unit	6	6	490	484	0	0	
3	13	Propylene Unit	9	9	692	699	3	3	
-	12 21	Gas Con/SATS Depropanizer/Treaters	27	27	1,982	1,982	2	2	
	14	Continuous Catalytic Reformer Unit	14	14	2,071	2,071	2	2	
4	16	Naphtha Hydrotreater Unit	23	23	1,743	1,969	0	0	
	19	Kerosene Hydrotreater Unit	8	8	685	691	1	1	
	1	Crude Tank Farm	24	24	829	833	0	0	
5	2	LPG Tank Farm	20	20	2,152	2,154	0	0	
	3/4	CP/Melvindale Tank Farms	25	26	1,560	1,521	0	0	
	38	Rouge Terminal	NA	2	NA	50	0	0	
		Light Products Terminal	18	15	888	808	0	0	

# Table 2 Leakers Detected During First Quarter 2012 Michigan Refining Division

		81			Date Leak	
Month	Complex	Unit	VOC Tag I.D.	Component Type	Detected	Date of Repair*

SEE ATTACHED TABLE

\*R/D = Repair Delay S/D = Shutdown Required



#### MARATHON - DETROIT 1300 SOUTH FORT STREET DETROIT, MI 48217

04/12/2012

#### LEAKING EQUIPMENT LOG

Program: NSPS-VV

<b>Process</b>	Unit .	01
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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
1634	VALVE/ ORBIT	8.00	MANNINO PIT SW OF TK 40								
				02/01/2012	M21	51800 PPM	VLV-PKG	02/07/2012	VLV-TP	141.00	
				02/07/2012	M21	141 PPM					02/07/2012
1884	VALVE/ ORBIT	6.00	KVP BLEND PIT W OF CATW	ALK							
				02/03/2012	M21	24700 PPM	VLV-PKG	02/03/2012	VLV-CL	65100.00	
				02/03/2012	M21	65100 PPM		02/06/2012	VLV-INJ	206.00	
				02/06/2012	M21	206 PPM					02/06/2012
2032	VALVE/ GATE	8.00	30' EAST OF TK30 TRANSFE	R LINE TO TK118							
				02/01/2012	M21	18700 PPM	VLV-PKG	02/06/2012	VLV-TP	13.00	
				02/06/2012	M21	13 PPM					02/06/2012

Program: NSPS-VV

Process U		20			Test		Part	Repair	Repair	Remonitor	Date
Tag Number	ce Group :  Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
2192	PUMP	0.00	W of carbon can station 11 in	API 03/27/2012	M21	29100 PPM	PMP-SEAL	03/27/2012	PMP-WS	10200.00	
				03/27/2012	M21	10200 PPM		03/27/2012	PMP-WS E	0.00	
				03/27/2012	VIS	F		03/28/2012	PMP-WS E	16.00	
				03/28/2012	M21	16 PPM					
				04/03/2012	VIS	Р					04/03/2012

	Process Unit 01 Sur	nmary
	Component Count	Leak Count
Total in Group	4	4
Total Valves	3	3
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-VV

Process U	nit: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-009	DOT LINE							
				01/19/2012	M21	13600 PPM	VLV-BON	01/19/2012	VLV-CAP	11500.00	
				01/19/2012	M21	11500 PPM		02/01/2012	VLV-CAP	0.00	
				02/01/2012	VIS	Р					
			<del>-</del>	02/01/2012	M21	52 PPM					02/01/2012
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-009	DOT LINE							
				03/21/2012	M21	11300 PPM	VLV-BON	03/21/2012	VLV-CL	14900.00	
			_	03/21/2012	M21	14900 PPM		03/27/2012	VLV-INJ	185.00	
			-	03/27/2012	M21	185 PPM					03/27/2012
2767	VALVE/ ORBIT	4.00	TOP OF TK98. 1FT S OF CAT	NALK.							
			_	03/02/2012	M21	51400 PPM	VLV-PKG	03/02/2012	VLV-CL	71400.00	
			_	03/02/2012	M21	71400 PPM		03/05/2012	TBL	8.00	
			_	03/05/2012	M21	8 PPM					03/05/2012
2969	VALVE/ ORBIT	3.00	8FT SW OF TK 89 ON SUCT Lt 22-P-41	N OF PUMP							
				03/05/2012	M21	30500 PPM	VLV-PKG	03/06/2012	VLV-INJ	4.00	
			-	03/06/2012	M21	4 PPM					03/06/2012
2993	PUMP	0.00	SW OF TK 89 SEAL OF PUMP	22-P-37							
				03/05/2012	M21	11500 PPM	PMP-SEAL	03/06/2012	PMP-WS E	2800.00	
			-	03/06/2012	M21	2800 PPM					03/06/2012
2998	PUMP	0.00	7FT SW OF TK 89 PUMP 22-P-	36 SEAL							
				02/23/2012	M21	38600 PPM	PMP-SEAL	02/24/2012	PMP-WS E	240.00	
			5 <del>-</del>	02/24/2012	M21	240 PPM					
			-	03/02/2012	. VIS	P					
			-	03/05/2012	VIS	Р					
			7 <del>-</del>	03/05/2012	M21	14.57 PPM					03/05/2012
3109	VALVE/ CHECK	4.00	BTM SSD OF TK 92 7FT E OF	TK 91 03/06/2012	. M21	13800 PPM	VLV-PLUG	03/06/2012	VLV-CL	15400.00	

Program: NSPS-VV

Process U	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/06/201	2 M21	15400 PPM		03/07/2012	VLV-TPL G	6100.00	
				03/07/201	2 M21	6100 PPM					03/07/2012
3195	VALVE/ ORBIT	3.00	SSD TOP OF BULLET TK 94 I	N OF CATWALK							
				03/06/201	2 M21	56700 PPM	VLV-PKG	03/06/2012	VLV-CL	65600.00	
				03/06/201	2 M21	65600 PPM		03/08/2012	VLV-TP	45.00	
				03/08/201	2 M21	45 PPM					03/08/2012
3221	VALVE/ ORBIT	3.00	SSD OF BULLET TK 93 ON To 92	OP 7FT E OF TK							
				01/19/201	2 M21	42200 PPM	VLV-PKG	01/19/2012	VLV-CP	29600.00	
				01/19/201	2 M21	29600 PPM		01/20/2012	VLV-TP	45.00	
				01/20/201	2 M21	45 PPM					01/20/2012
3344	VALVE/ SWING	3.00	BTM SSD OF BULLET 95 10F	T E OF BULLET							
				03/07/201	2 M21	14200 PPM	VLV-SCR	03/07/2012	VLV-CL	13800.00	
				03/07/201	2 M21	13800 PPM		03/08/2012	VLV-TPL G	8400.00	
				03/08/201	2 M21	8400 PPM					03/08/2012
3762	VALVE/ ORIFIC	0.75	IN PIPERACK 20FT NW OF 2	2V5. 03/07/201	2 M21	11200 PPM	VLV-BON	03/08/2012	VLV-TBO N	140.00	
				03/08/201	2 M21	140 PPM					03/08/2012
3889	VALVE/ ORBIT	6.00	TOP OF TK87 W SDE	03/14/201	0 8404	11700 PPM	VLV-PKG	03/14/2012	VLV-CL	11000.00	
						11000 PPM	VEV-FINO	03/15/2012	VLV-TP	65.00	
				03/14/201		65 PPM		03/13/2012	VLV 11		03/15/2012
0040	VALVE/ DEC!!!	1.00	SE SDE OF TK87 @ CEMEN	03/15/201	0.1	n Delay for Turnard	ound on 12/16	/2011 Remove	d From Tur	naround List or	***************************************
3918	VALVE/ REGUL	1.00	SE SUE OF TROT @ CEMEN	12/02/201		31800 PPM	VLV-BON	12/02/2011		276300.00	
				12/02/201	1 M21	276300 PPM		12/06/2011	VLV-CL	20000.00	

Program: NSPS-VV

Process U	Jnit: 02										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				12/06/2011	M21	20000 PPM		01/19/2012	VLV-RV	4.79	
				01/19/2012	M21	4.79 PPM					01/19/2012
3958	PUMP	0.00	22P87 12' W OF TK80				•				
				03/14/2012	VIS	F	PMP-SCR	03/14/2012	PMP-TFI	5500.00	
				03/14/2012	M21	5500 PPM	200	03/14/2012	PMP-TFI	5500.00	
				03/14/2012	M21	5500 PPM		03/14/2012	PMP-TFI	20000.00	
				03/15/2012	M21	20000 PPM		03/15/2012	PMP-TFI	0.00	
				03/22/2012	VIS	Р					
				03/28/2012	VIS	Р		1122			
				04/04/2012	VIS	P					
				04/11/2012	VIS	F					03/22/2012
3976	PUMP	0.00	PUMP 22P86 12' W OF TK80	02/23/2012	M21	21300 PPM	PMP-PHS	02/23/2012	PMP-WS E	32100.00	
				02/23/2012	M21	32100 PPM		02/24/2012	PMP-WS	134.00	
				02/24/2012	M21	134 PPM					02/24/2012
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE	12' W OF TK80							
				01/19/2012	M21	19700 PPM	VLV-PKG	01/19/2012	VLV-CP	48700.00	
				01/19/2012	M21	48700 PPM		01/20/2012	VLV-TP	278.00	
				01/20/2012	M21	278 PPM					01/20/2012
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE	12' W OF TK80							
				02/23/2012	VIS	F	VLV-PKG	02/23/2012	VLV-CL	28500.00	
				02/23/2012	M21	28500 PPM					
				02/23/2012	M21	76000 PPM		02/24/2012	VLV-TP	6.00	
				02/24/2012	M21	6 PPM					
				02/24/2012	VIS	Р					02/24/2012
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE	12' W OF TK80 03/15/2012	M21	57700 PPM	VLV-PKG	03/15/2012	VLV-CL	119600.00	

Program: NSPS-VV

Process U	nit: 02										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/15/2012	M21	119600 PPM		03/16/2012	VLV-INJ	23.00	
				03/16/2012	M21	23 PPM					03/16/2012
4061	VALVE/ ORBIT	6.00	S SIDE TK83 TOP BLK	02/23/2012	VIS	F	VLV-PKG	02/23/2012	VLV-CL	11000.00	
				02/23/2012	M21	11000 PPM					
				02/23/2012	M21	14200 PPM		02/24/2012	VLV-TP	126.00	
				02/24/2012	M21	126 PPM					
				02/24/2012	VIS	Р					02/24/2012
				· · · · · · · · · · · · · · · · · · ·							

	Process Unit 02 Sun	nmary
	Component Count	Leak Count
Total in Group	15	19
Total Valves	12	15
Total Pumps	3	4
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-GGGA

Process L	Jnit: 04										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
1-01172	VALVE	0.75	W SDE 4H1 @ FUEL GAS LN	NE BRNR# 12							
				03/08/2012	M21	575 PPM	VLV-PLUG	03/08/2012	VLV-CL	586.00	
				03/08/2012	M21	586 PPM		03/09/2012	VLV-TPL G	2.00	
				03/09/2012	M21	2 PPM					03/09/2012
27930 V	VALVE	4.00	SW 4H1 HTR @ FUEL GAS	CNTRL LP 4PV311							
				03/08/2012	M21	788 PPM	VLV-PKG	03/08/2012	VLV-TP	169.00	
				03/08/2012	M21	169 PPM					03/08/2012
30502	VALVE	0.50	SE OF 4H1 HTR @ FUEL GA	S CNTRL LP							
				03/08/2012	M21	608 PPM	VLV-PKG	03/08/2012	VLV-TP	591.00	
				03/08/2012	M21	591 PPM		03/09/2012	VLV-TP	118.00	
				03/09/2012	M21	118 PPM					03/09/2012

	Process Unit 04 Sur	nmary	
	Component Count	Leak Count	
Total in Group	3	3	
Total Valves	3	3	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NSPS-VV

Process L	Jnit: 05										
					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
1-00639	VALVE	0.50	E OF CNTRL RM ALLEYWAY MANIFLD @ FLW MTR	NAPHTHA							
				03/14/2012	M21	11000 PPM	VLV-SCR	03/14/2012	VLV-CL	8261.00	
				03/14/2012	M21	8261 PPM					03/14/2012
1-00639 V	VALVE	0.50	E OF CNTRL RM ALLEYWAY MANIFLD @ FLW MTR	NAPHTHA							
				03/15/2012	M21	10000 PPM	VLV-SCR	03/15/2012	VLV-CL	112.00	
				03/16/2012	M21	112 PPM		03/16/2012	VLV-TFIT T		03/16/2012
27472	VALVE	0.75	E OF CNTRL RM LVL 1 STRI CNTRL LP N OF 5V4	JCT ORF OH							
				03/14/2012	M21	17000 PPM	VLV-PLUG	03/14/2012	VLV-CL	3264.00	
				03/14/2012	M21	3264 PPM					03/14/2012

	Process Unit 05 Sun	nmary	
	Component Count	Leak Count	
Total in Group	2	3	
Total Valves	2	3	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NSPS-VV

					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location N	Ionitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
10104	VALVE	3.00	CNTRL LOOP 07PC707 W OF 7	V12							
				03/22/2012	M21	11600 PPM	VLV-PKG	03/23/2012	VLV-TP	119.00	
				03/23/2012	M21	119 PPM					03/23/2012
2-01149	PUMP/ CENTRIF	0.00	7P11 RECONTACTING PUMP-0	7-07							
				01/19/2012	M21	10700 PPM	PMP-SEAL	01/19/2012	PMP-WS E	3811.00	
			_	01/19/2012	M21	3811 PPM					01/19/2012

	Process Unit 07 Sur	nmary	
	Component Count	Leak Count	
Total in Group	2	2	
Total Valves	1	1	
Total Pumps	1	1	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NSPS-VV

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3675	VALVE/ NEEDLE	0.50	NORTHEAST OF 8V2 DPCELI	L 4/4							
				02/13/2012	M21	19800 PPM	VLV-PKG	02/13/2012	VLV-CL	4792.00	
				02/13/2012	M21	4792 PPM					02/13/2012
8675	VALVE/ NEEDLE	0.50	NORTHEAST OF 8V2 DPCELI	L 4/4							
				02/15/2012	M21	10000 PPM	VLV-PKG	02/15/2012	VLV-TP	111.00	
				02/22/2012	M21	111 PPM		02/22/2012	VLV-TP		02/22/2012

	Process Unit 08 Sun	nmary
	<b>Component Count</b>	Leak Count
Total in Group	1	2
Total Valves	1	2
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
09C1	COMPRESSOR	0.00	9C1 ALKY COMPRESSOR	**	* Placed or	n Delay for Turnard	ound on 11/23/2	2009		the Value and the state of	
	CENTRIFUGE			11/12/2009	M21	11300 PPM	COM-CSE AL	11/17/2009	CMP-WO	15000.00	
				11/17/2009	M21	15000 PPM					
				12/29/2009	M21	4964 PPM					
				01/14/2010	M21	11245 PPM		01/14/2010	VLV-SEJ	9911.00	
				01/14/2010	M21	9911 PPM	***************************************				
				02/03/2010	M21	10253 PPM		02/03/2010	VLV-SEJ	9856.00	
				02/03/2010	M21	9856 PPM					
				03/23/2010	M21	1563 PPM					
				04/30/2010	M21	155 PPM					
				05/23/2010	M21	331 PPM		06/30/2010	CMP-WO	1601.00	
				06/30/2010	M21	1601 PPM					
				07/15/2010	M21	178 PPM					
				08/24/2010	M21	53.8 PPM					
				09/29/2010	M21	164 PPM					
				10/06/2010	M21	208 PPM		11/30/2010	CMP-WO	2313.00	
				11/30/2010	M21	2313 PPM					
				11/30/2010	M21	3411 PPM		01/14/2011	CMP-WO	2404.00	
				01/14/2011	M21	2404 PPM					
				01/14/2011	M21	29.88 PPM					
				02/17/2011	M21	140 PPM					
				04/26/2011	M21	20.18 PPM					
				05/04/2011	M21	1748 PPM					
				06/20/2011	M21	1291 PPM					
				07/11/2011	M21	70.24 PPM		08/17/2011	CMP-WO	100000.00	
				08/17/2011	M21	100000 PPM					

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/17/2017	M21	102000 PPM		09/29/2011	CMP-WO	75000.00	
				09/29/201	M21	75000 PPM	-100				
				09/29/2017	M21	198700 PPM		10/10/2011	CMP-WO	79400.00	
				10/10/201	M21	79400 PPM					
				10/10/201	M21	133200 PPM		11/30/2011	CMP-WO	110400.00	
				11/30/2011	M21	110400 PPM					
				11/30/201	M21	124500 PPM		12/15/2011	CMP-WO	144900.00	
				12/15/201	M21	144900 PPM					
				12/15/201	M21	18800 PPM		01/03/2012	CMP-WO	17900.00	
				01/03/2012	2 M21	17900 PPM					
				01/03/2012	2 M21	207500 PPM					
				02/14/2012	2 M21	959 PPM		03/21/2012	COM-ST EAM	231600.00	
				03/21/2012	2 M21	231600 PPM					
				03/21/2012	M21	14700 PPM		04/04/2012	CMP-WO	73100.00	
				04/04/2012	M21	73100 PPM					
				04/04/2012	M21	84800 PPM					
10598	VALVE	0.00	TOP 9V18 S SIDE PLTFRM.	01/04/2012	2 M21	10000 PPM	VLV-PLUG	01/04/2012	VLV-CL	45.15	
				01/04/2012	M21	45.15 PPM					01/04/2012
10599	VALVE/ BLEEDER	0.75	TOP 9V18 S SIDE PLTFRM.								

Program: NSPS-VV

Process U	Init: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
10599	VALVE/ BLEEDER	0.75	TOP 9V18 S SIDE PLTFRM.								
				01/04/2012	M21	18100 PPM	VLV-PLUG	01/05/2012	VLV-TPL G	20000.00	
				01/05/2012	M21	20000 PPM		01/12/2012	VLV-TCO N	14.00	
				01/13/2012	M21	14 PPM		01/13/2012	VLV-PLU		01/13/2012
12953	VALVE/ BLEEDER	0.75	TOP MIDDLE E SIDE 9E7A								
				01/05/2012	M21	147000 PPM	VLV-PLUG	01/05/2012	VLV-CL	49800.00	
				01/05/2012	M21	49800 PPM		01/10/2012	VLV-TPL G	31.00	
				01/10/2012	M21	31 PPM					01/10/2012
14392	PUMP	0.00	6/0 9P1B	02/14/2012	. VIS	F	PMP-SEAL	02/14/2012	PMP-WS	11400.00	
				02/14/2012	M21	11400 PPM				100000	
				02/14/2012	M21	16100 PPM		02/16/2012	PMP-WS E	45.00	
				02/16/2012	M21	45 PPM					02/16/2012
14392	PUMP	0.00	6/0 9P1B	03/21/2012	M21	36700 PPM	PMP-SEAL	03/21/2012	PMP-WS	23700.00	
				03/21/2012	M21	23700 PPM		03/21/2012	PMP-WS	0.00	
				03/21/2012	2 VIS	F		03/22/2012	PMP-WS	10.00	
				03/22/2012	2 M21	10 PPM					
				03/28/2012	2 VIS	Р					03/28/2012
15601	VALVE/ BALL	1.00	TOP PLATFORM E OF 9V18	3.		n Delay for Turnard					
				01/04/2012	M21	84700 PPM	VLV- SGL	01/04/2012	VLV-TCC	25.42	

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
15601	VALVE/ BALL	1.00	TOP PLATFORM E OF 9V18.	***	* Placed or	n Delay for Turnaro	ound on 01/06/2	2012			
									N		
				02/29/2012	M21	25.42 PPM					
				03/21/2012	M21	56.29 PPM		04/04/2012	VLV-CL	3956.00	
				04/04/2012	M21	3956 PPM					
				04/04/2012	M21	3275 PPM					
7873 PUMP 0	0.00	6/0 9P3B	03/21/2012	M21	22300 PPM	PMP-SEAL	03/21/2012	PMP-WS	87500.00		
				03/21/2012	M21	87500 PPM					
			03/21/2012	VIS	Р		03/22/2012	PMP-ST M	108.00		
				03/22/2012	M21	108 PPM					
				03/28/2012	VIS	Р					03/28/2012
17874	PUMP	0.00	6/0 9P3A	03/21/2012	M21	26500 PPM	PMP-SEAL	03/21/2012	PMP-WS	10700.00	
				03/21/2012	M21	10700 PPM				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				03/21/2012	VIS	Р		03/22/2012	PMP-WS	87.00	
				03/22/2012	M21	87 PPM					
				03/28/2012	VIS	Р					03/28/2012
19465	VALVE/ GATE	6.00	6/4 SUCT 9P4B	01/03/2012	M21	121000 PPM	VLV-PKG	01/03/2012	VLV-TP	18600.00	
	9			01/03/2012	M21	18600 PPM		01/04/2012	VLV-TP	206.00	
				01/04/2012	M21	206 PPM					01/04/2012
2-00590	VALVE	0.50	SESDE 9E36 @ORF	01/03/2012	M21	20000 PPM	VLV-PKG	01/03/2012	VLV-TP	823.00	
				01/03/2012		823 PPM					01/03/2012

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2-01000	VALVE	2.00	@ CNTRL LOOP 10FT N OF 9	E30.							
				01/03/2012	M21	11600 PPM	VLV-PKG	01/03/2012	VLV-CP	11600.00	
				01/03/2012	M21	11600 PPM		01/03/2012	VLV-CL	125.00	
				01/03/2012	M21	125 PPM		01/03/2012	VLV-TP		01/03/2012
2-01720	VALVE/ CTRL	2.00	CV 9PC0523 ON W SDE OF 9	E21 01/03/2012	2 M21	23100 PPM	VLV-PKG	01/04/2012	VLV-CP	28.00	
			9	01/04/2012		28 PPM		(September 200)			01/04/2012
2-01924	VALVE	0.50	CNTRL LOOP W OF 9V16							100-111	
				01/04/2012	M21	18200 PPM	VLV-PKG	01/04/2012	VLV-TP	128.00	
				01/04/2012	M21	128 PPM					01/04/2012
2-01924	VALVE	0.50	CNTRL LOOP W OF 9V16								
				02/14/2012	M21	28200 PPM	VLV-PKG	02/14/2012	VLV-CL	19800.00	
				02/14/2012	M21	19800 PPM		02/16/2012	VLV-CP	154.00	
				02/16/2012	2 M21	154 PPM					02/16/2012
2-01924	VALVE	0.50	CNTRL LOOP W OF 9V16								
				03/21/2012	M21	18200 PPM	VLV-PKG	03/21/2012	VLV-CL	17600.00	
				03/21/2012	2 M21	17600 PPM		03/23/2012	VLV-RP	208.00	
				03/23/2012	M21	208 PPM					03/23/2012
20225	PUMP	0.00	6/0 9P6	01/03/2012	2 VIS	F	PMP-TUB	01/03/2012	PMP-WS	65800.00	
				01/03/2012	2 M21	65800 PPM					
				01/03/2012		18900 PPM		01/04/2012	PMP-WS	23000.00	
				01/04/2012	2 M21	23000 PPM		01/11/2012	PMP-TFI	0.00	
				01/11/2012	2 VIS	F		01/17/2012	PMP-TFI	0.00	
				01/17/2012	2 VIS	Р					
				01/17/2012	2 M21	52 PPM					01/17/2012
20225	PUMP	0.00	6/0 9P6	02/15/2012	2 M21	20000 PPM	PMP-SEAL	02/15/2012	PMP-WS	0.00	

Program: NSPS-VV

Process U	Init: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Complete
20225	PUMP	0.00	6/0 9P6							SHAKARA	
				8					E		
				02/21/2012	VIS	Р		02/28/2012	PMP-SEJ	1297.00	
				02/28/2012	M21	1297 PPM					02/28/20
21789	VALVE	0.00	BTM NSDE 9E35								
				01/05/2012	M21	62900 PPM	VLV-PLUG	01/05/2012	VLV-CL	8144.00	
				01/05/2012	M21	8144 PPM					01/05/20
24110	VALVE/ BALL	0.00	SMPLSTAT 5FT N OF 9E35 I KIND WITH TAG 33460	REPLACEMENT IN **	* Placed o	n Delay for Turnard	ound on 01/23/	2009 Remove	d From Turr	naround List or	11/29/2010
				04/22/2009	M21	35600 PPM	VLV-BON	04/22/2009	VLV-TBO N	31100.00	
				04/22/2009	M21	31100 PPM		05/28/2009	VLV-TBO N	1260.00	
				05/28/2009	M21	1260 PPM					
				06/29/2009	M21	623 PPM		06/29/2009	VLV-TBO N	610.00	
				06/29/2009	M21	610 PPM					
				07/16/2009	M21	3616 PPM		07/16/2009	VLV-TBO N	1267.00	
				07/16/2009	M21	1267 PPM					
				08/17/2009	M21	2294 PPM		08/17/2009	VLV-TBO N	2065.00	
				08/17/2009	M21	2065 PPM					710-711
				09/14/2009	M21	5222 PPM		09/14/2009	VLV-TBO N	4830.00	
				09/14/2009	M21	4830 PPM					
				10/14/2009	M21	4 PPM					
				11/20/2009	0 1000000	46 PPM					
				12/10/2009		46 PPM					
				01/12/2010		189 PPM					

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				02/02/2010	) M21	3 РРМ		03/23/2010	VLV-TBO N	774.00	
				03/23/2010	) M21	774 PPM					
				03/23/2010	) M21	931 PPM					
				04/18/2010	M21	17.41 PPM					
				05/23/2010	) M21	1531 PPM		06/30/2010	VLV-TBO N	2264.00	
				06/30/2010	) M21	2264 PPM					
				06/30/2010	) M21	1955 PPM		07/07/2010	VLV-TBO N	2815.00	
				07/07/2010	) M21	2815 PPM		07/07/2010	VLV-TBO N	2730.00	
				07/07/2010	) M21	2730 PPM					
				08/24/2010	M21	144 PPM		09/21/2010	VLV-CL	460.00	
				09/21/2010	M21	460 PPM					
				09/21/2010	M21	156 PPM					
				10/03/2010	M21	74.22 PPM		11/29/2010	VLV-RV	2.00	
				11/29/2010	M21	2 PPM					
26147	VALVE/ ORBIT	6.00	SE SIDE 9E10B	01/03/2012	2 M21	29700 PPM	VLV-PKG	01/04/2012	VLV-TP	79.00	
				01/04/2012	M21	79 PPM					01/04/2012
27200	VALVE/ BALL	0.25	SMPLSTAT 5FT N OF 9E35 R KIND WITH TAG 33459	EPLACEMENT IN **	** Placed or	n Delay for Turnard	ound on 01/23/	2009 Remove	d From Turr	around List or	11/29/2010
				04/22/2009	M21	12500 PPM	VLV-BON	04/22/2009	VLV-TBO N	954.00	
				05/28/2009	M21	954 PPM		05/28/2009	VLV-TBO N	986.00	
				06/29/2009	M21	986 PPM		06/29/2009	VLV-TBO N	900.00	**************************************
				06/29/2009	M21	900 PPM					

Program: NSPS-VV

Tag Number	Part / Type	Size	Location		Test						
Tag Number	Part / Type	Size	Location		Tool		D				
Tag Number	Part / Type	Size	Location		rest		Part	Repair	Repair	Remonitor	Date
			20041011	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
				07/20/2009	M21	16 PPM					
				08/17/2009	M21	36 PPM					
				09/14/2009	M21	37 PPM					
				10/14/2009	M21	42 PPM					
				11/20/2009	M21	43 PPM					
				12/10/2009	M21	41 PPM					
				01/12/2010	M21	21 PPM					
				02/02/2010	M21	3 PPM					
				03/23/2010	M21	46.49 PPM					
				04/18/2010	M21	52.12 PPM					
				05/23/2010	M21	26.37 PPM					
				06/30/2010	M21	37.23 PPM		07/07/2010	VLV-TBO N	434.00	
				07/07/2010	M21	434 PPM					
				07/07/2010	M21	64.78 PPM					
				08/24/2010	M21	47.85 PPM					
				09/21/2010	M21	181 PPM					
				10/03/2010	M21	19.44 PPM		11/29/2010	VLV-RV	4.00	
				11/29/2010	M21	4 PPM					
32659	VALVE/ GATE	0.75	9V40 NE UP PLTF @ 6" LINE OF VSL	OUT OF TOP							
				01/02/2012	M21	10200 PPM	VLV-SCR	01/02/2012	VLV-CL	10100.00	
				01/02/2012	M21	10100 PPM		01/03/2012	VLV-TFIT T	36.00	
				01/03/2012	M21	36 PPM		1942			01/03/2012
34657	VALVE/ NEEDLE	0.50	G/3 WSDE PMP 9P4A								
				01/03/2012	M21	13700 PPM	VLV-PKG	01/03/2012	VLV-TP	30.62	
				01/03/2012	M21	30.62 PPM					01/03/2012

Program: NSPS-VV

Process U	Init: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
40255	VALVE	0.00	EAST of 9e15 water boot			- 104					
				01/02/2012	M21	54800 PPM	VLV-BON	01/02/2012	VLV-CL	9173.00	
				01/02/2012	M21	9173 PPM		-			01/02/2012
40257	VALVE	0.75	DIB OVHD SMPL STATION	NE OF 9E10B		************					
				01/03/2012	M21	132900 PPM	VLV-BON	01/03/2012	VLV-CL	30300.00	
				01/03/2012	M21	30300 PPM		01/04/2012	VLV-CL	29.00	
				01/04/2012	M21	29 PPM					01/04/2012
40257	VALVE	0.75	DIB OVHD SMPL STATION	NE OF 9E10B			************************	0			
				02/14/2012	M21	52800 PPM	VLV-TUB	02/14/2012	VLV-CL	32900.00	
				02/14/2012	M21	32900 PPM		02/15/2012	VLV-TFIT T	44.00	
				02/15/2012	M21	44 PPM					02/15/2012
40258	VALVE/ NEEDLE	0.25	DIB OVHD SMPL STATION I	NE OF 9E10B							
				01/03/2012	M21	71300 PPM	VLV-TUB	01/03/2012	VLV-CL	10200.00	
				01/03/2012	M21	10200 PPM		01/04/2012	VLV-CL	44.00	
				01/04/2012	M21	44 PPM					01/04/2012
40258	VALVE/ NEEDLE	0.25	DIB OVHD SMPL STATION I	NE OF 9E10B							
				02/14/2012	M21	23600 PPM	VLV-TUB	02/14/2012	ATSC	4504.00	
				02/14/2012	M21	4504 PPM					02/14/2012
40311	VALVE/ CTRL	3.00	CV 9LC0534 CNTLP BTW 9F	P1B & 9P55						05400.00	
				01/03/2012	M21	62500 PPM	VLV-PKG	01/03/2012		35400.00	
				01/03/2012		35400 PPM		01/04/2012	VLV-CP	278.00	01/04/2012
				01/04/2012	M21	278 PPM					01/04/2012
40344	VALVE	0.00	SESDE 9E36 @DPCELL	02/14/2012	2 VIS	F	VLV-PKG	02/14/2012	VLV-CL	22000.00	
				02/14/2012	M21	22000 PPM		02/14/2012	VLV-CL	10100.00	
				02/14/2012	2 M21	10100 PPM		02/15/2012	VLV-TFIT	2500.00	

Program: NSPS-VV

Process U	nit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
									т		
				02/15/2012	M21	2500 PPM		02/24/2012	VLV-RV	27.00	
				02/24/2012	M21	27 PPM					
				02/24/2012	VIS	Р					
				02/24/2012	M21	0 PPM					02/24/201
40843	VALVE/ CTRL	0.25	CNTLP E OF 9E25 #LC552	01/04/2012	M21	107000 PPM	VLV-PKG	01/04/2012	VLV-CL	135500.00	
				01/04/2012	M21	135500 PPM		01/05/2012	VLV-TP	170.00	
				01/05/2012	M21	170 PPM					01/05/201

	Process Unit 09 Sur	nmary	
	Component Count	Leak Count	
Total in Group	26	32	
Total Valves	21	25	
Total Pumps	4	6	
Total Compressors	1	1	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NSPS-VV

Process U	Init: 12-21										
Tag Number	Part / Type	Size	Location M		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
14512	VALVE	0.75	12V41 LVL3 LVL VLM - TOP BV	@ SG ***	Placed o	n Delay for Turnard	ound on 02/16	/2012			
				02/02/2012	M21	42500 PPM	VLV- SGL	02/02/2012	VLV-CL	86400.00	7
			<del>-</del>	02/02/2012	M21	86400 PPM		02/08/2012	VLV-CL	8800.00	
			<del>-</del>	02/08/2012	M21	8800 PPM					02/08/2012
15368	VALVE/ GATE	0.50	@ 12P166 W SIDE 50FT S OF 1	12V5 02/06/2012	M21	10600 PPM	VLV-TUB	02/06/2012	VLV-CL	13100.00	
			-	02/06/2012	M21	13100 PPM		02/07/2012	VLV-TFIT	28.00	
			9 <del>2.</del>	02/07/2012	M21	28 PPM					02/07/2012
23780	VALVE/ GATE	2.00	G/6 VENT ON CNLP E OF 21V	02/06/2012	M21	149700 PPM	VLV-PKG	02/06/2012	VLV-TP	111400.00	
			-	02/06/2012	M21	111400 PPM		02/08/2012	VLV-TP	38.00	
2			* <u>-</u>	02/08/2012	M21	38 PPM					02/08/2012
24342	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - N F REPLACEMENT IN KIND WITH		Placed o	n Delay for Turnard	ound on 08/31	/2007 Remove	d From Tur	naround List or	11/23/2010
				08/18/2007	M21	26200 PPM	VLV-SCR	08/18/2007	VLV-WO W	26200.00	
			_	08/18/2007	M21	26200 PPM					
				08/18/2007	M21	26200 PPM					
				09/27/2007	M21	14900 PPM					
				10/31/2007	M21	801 PPM					
				11/05/2007	M21	88000 PPM		11/05/2007	VLV-TPL G	60000.00	
				11/05/2007	M21	60000 PPM					
			» <del></del>	11/29/2007	M21	60000 PPM					
			-	12/28/2007	M21	91 PPM		01/31/2008	VLV-TFIT T	4850.00	
			-	01/31/2008	M21	4850 PPM					
			-	02/07/2008	M21	1521 PPM		02/07/2008	VLV-TFIT	2269.00	

Program: NSPS-VV

					The same of the sa			. toporting	100000		00/01/201/
Process U	Jnit: 12-21	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
									Т		
				02/07/2008	M21	2269 PPM					
				05/29/2008	M21	35 PPM					
				08/13/2008	M21	23 PPM					
				09/11/2008	M21	7 PPM					
				10/21/2008	M21	3642 PPM		10/21/2008	VLV-TPL G	584.00	
				10/21/2008	M21	584 PPM					
				11/24/2008	M21	128400 PPM		11/24/2008	VLV-TPL G	218400.00	
				11/24/2008	M21	218400 PPM					
				12/17/2008	M21	8 PPM					
				01/27/2009	M21	106 PPM					
				02/05/2009	M21	991559 PPM		02/05/2009	VLV-TPL G	990016.00	
				02/05/2009	M21	990016					
				03/02/2009	M21	3552 PPM		03/02/2009	VLV-TFIT	3421.00	
				03/02/2009	M21	3421 PPM					
				04/30/2009	M21	12 PPM					
				05/04/2009	M21	126200 PPM		05/04/2009	VLV-TPL G	124000.00	
				05/04/2009	M21	124000 PPM					
				06/22/2009	M21	17 PPM		-			
				07/31/2009	M21	13 PPM					
				08/05/2009	M21	28 PPM					
				09/23/2009	M21	78400 PPM		09/23/2009	VLV-TPL	22300.00	

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						A CONTRACTOR OF THE PARTY OF TH			C. CANADA		
Tag Number	Init: 12-21	Size	Location	Monitor Date	Test Method	PPM Reading		Repair Date	Repair Method	Remonitor Reading	Date Complete
0.48									G		
				09/23/2009	M21	22300 PPM					
				10/28/2009	M21	2017 PPM	10	0/28/2009	VLV-TPL G	4520.00	
				10/28/2009	M21	4520 PPM					
				11/17/2009	M21	21333 PPM	1	1/17/2009	VLV-TPL G	19884.00	
				11/17/2009	M21	19884 PPM					
				12/30/2009	M21	14230 PPM	1:	2/30/2009	VLV-TPL	18962.00	
				12/30/2009	M21	18962 PPM					
				01/26/2010	M21	11520 PPM	0	1/26/2010	VLV-TIG	8963.00	
				01/26/2010	M21	8963 PPM					
				02/02/2010	M21	51 PPM					
				03/10/2010	M21	19.46 PPM	04	4/14/2010	VLV-TPL G	4360.00	
				04/14/2010	M21	4360 PPM					
				05/12/2010	M21	8505 PPM					
				06/29/2010	M21	1.75 PPM	0	7/30/2010	VLV-TPL G	3443.00	
				07/30/2010	M21	3443 PPM	0	7/30/2010	VLV-TPL G	2148.00	
				07/30/2010	M21	2148 PPM	0	8/17/2010	VLV-TPL G	27300.00	
				08/17/2010	M21	27300 PPM	0	8/17/2010	VLV-TPL G	15800.00	
				08/17/2010	M21	15800 PPM	0	9/24/2010	VLV-TP	897.00	
				09/24/2010	M21	897 PPM					
				09/24/2010	M21	187 PPM					
				10/09/2010	M21	58.74 PPM	1	1/23/2010	VLV-TP	2.00	

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Process U	Init: 12-21										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
/				11/23/2010	M21	2 PPM					
24343	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - S REPLACEMENT IN KIND WIT		Placed or	n Delay for Turnaro	und on 08/31/2	2007 Remove	d From Turi	naround List on	11/23/2010
				08/18/2007	M21	36300 PPM	VLV-PLUG				
				08/18/2007	M21	36300 PPM		08/18/2007	VLV-TPL G	36300.00	
				08/18/2007	M21	36300 PPM					
				09/27/2007	M21	156200 PPM					
				10/31/2007	M21	42000 PPM					
				11/05/2007	M21	89300 PPM		11/05/2007	VLV-TPL G	357400.00	
				11/05/2007	M21	357400 PPM					
				12/28/2007	M21	33900 PPM		12/28/2007	VLV-TPL G	13900.00	
				12/28/2007	M21	13900 PPM		01/31/2008	VLV-TFIT T	24000.00	
				01/31/2008	M21	24000 PPM					
				02/07/2008	M21	30500 PPM		02/07/2008	VLV-TFIT T	58600.00	
				02/07/2008	M21	58600 PPM		03/31/2008	VLV-WO W	588600.00	
				03/31/2008	M21	588600 PPM					
				04/28/2008	M21	20500 PPM		04/28/2008	VLV-TPL G	14800.00	
				04/28/2008	M21	14800 PPM					
				05/29/2008	- 12070A	133 PPM					
				06/26/2008	M21	12600 PPM		06/26/2008	VLV-TPL G	22000.00	

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ag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Complete
						20000 DD14					
				06/26/2008		22000 PPM					
				07/10/2008	A 200000	3 PPM					
				08/13/2008		115 PPM					
				09/11/2008		7 PPM			V4V4 TDI	24000.00	
				10/21/2008	M21	59500 PPM		10/21/2008	VLV-TPL G	84800.00	
				10/21/2008	M21	84800 PPM					
				11/24/2008	M21	149200 PP <b>M</b>		11/24/2008	VLV-TPL G	147000.00	
				11/24/2008	M21	147000 PPM					
				12/17/2008	M21	10 PPM			Ti		
				01/27/2009	M21	35 PPM					
				02/05/2009	M21	855000 PPM		02/05/2009	VLV-TPL G	851999.00	
				02/05/2009	M21	851999 PPM					
				03/20/2009	M21	544 PPM		03/20/2009	VLV-TGA UGE	753600.00	
				03/20/2009	M21	753600 PPM					
				04/30/2009	M21	24 PPM					
				05/04/2009	M21	302186 PPM		05/04/2009	VLV-TPL G	168236.00	
				05/04/2009	M21	168236 PPM					
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	15 PPM					
				08/05/2009	M21	26300 PPM		08/05/2009	VLV-TPL G	8848.00	

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										190 N 190 N 1	
Process U	Init: 12-21				Test		Part	Repair	Repair	Remonitor	Date
Γag Number	Part / Type	Size	Location	<b>Monitor Date</b>	Method	PPM Reading	Leaking	Date	Method	Reading	Complete
				08/05/2009	M21	8848 PPM					
				09/23/2009	M21	33900 PPM		09/23/2009	VLV-TPL	2363.00	
									G		
				09/23/2009	M21	2363 PPM					
				10/28/2009	M21	948 PPM		10/28/2009	VLV-TPL	1647.00	
									G		
				10/28/2009	000000	1647 PPM			\#\\TO4	14500.00	
				11/17/2009	M21	66000 PPM		11/17/2009	VLV-TGA UGE	44569.00	
				11/17/2009	M21	44569 PPM					
				12/30/2009		8200 PPM		12/30/2009	VLV-TPL	6415.00	
					a laboratori	6415 PPM		12/30/2003	127 2		
				12/30/2009		7233 PPM		01/26/2010	VLV-TPL	5122.00	
					50.000	5122 PPM		01/20/2010	V2	0.120.00	
				01/26/2010	5000000	17 PPM	-				
				02/02/2010		18.99 PPM		04/14/2010	VLV-TPL	20000.00	
				03/10/2010	M21	10.99 FFIVI		04/14/2010	G	20000.00	
				04/14/2010	M21	20000 PPM					
				05/12/2010		1317 PPM					
				06/29/2010		185 PPM			-		
				07/28/2010		73100 PPM		08/17/2010	VLV-TPL	4321.00	
				0772072010					G		
				08/17/2010	M21	4321 PPM		09/24/2010	VLV-TFIT	3601.00	
				Y-1-20-1					Т		
				09/24/2010	M21	3601 PPM					
				09/24/2010	M21	2843 PPM					
				10/09/2010	M21	51.32 PPM		11/23/2010	VLV-RV	2.00	
				11/23/2010	M21	2 PPM					

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Process U	Init: 12-21										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
25318	VALVE	4.00	12E12 S END			Notice and control to an	Sub-reserve de respektiventen				
				02/02/2012	M21	18900 PPM	VLV-FLG	02/02/2012	VLV-CAP	19600.00	
				02/02/2012	M21	19600 PPM		02/08/2012	VLV-CL	167.00	
				02/08/2012	M21	167 PPM					02/08/2012
25319.01	CONNECTOR/ FLANGE	0.75	12E13 S END								
				02/02/2012	VIS	F	CON-FLG	02/02/2012	CON-CLA	24200.00	
				02/02/2012	M21	24200 PPM					
				02/02/2012	M21	28500 PPM		02/08/2012	CON-CLA	165.00	
				02/08/2012	M21	165 PPM					
				02/08/2012	VIS	Р					02/08/2012
25399	VALVE/ CTRL	4.00	G 1/10 on PIATFRM aBOVE 1 LVL 1 CTRL LOOP 12PC0261								
				02/07/2012	M21	18100 PPM	VLV-PKG	02/07/2012	VLV-CL	16200.00	
				02/07/2012	M21	16200 PPM		02/08/2012	VLV-TP	216.00	
				02/08/2012	M21	216 PPM					02/08/2012
26111	VALVE/ GATE	0.50	@ CNTRL LOOP N OF 12V5	02/06/2012	M21	157100 PPM	VLV-SCR	02/06/2012	VLV-CP	68900.00	
				02/06/2012	M21	68900 PPM		02/07/2012	VLV-TFIT T	18.00	
				02/07/2012	M21	18 PPM					02/07/2012
28218	PUMP	0.00	12P145B	03/22/2012	M21	10000 PPM	PMP-SCR	03/22/2012	PMP-TFI	0.00	
				03/26/2012	VIS	Р		03/27/2012	PMP-TFL G	6.00	
				03/27/2012	M21	6 PPM					03/27/2012
3-00384	VALVE	2.00	12V1 LVL1 LVL CLM - BV	02/06/2012	M21	22000 PPM	VLV-PKG	02/08/2012	VLV-TP	56.00	
				02/08/2012	***************************************	56 PPM		2011/00/2011/00 -1/Ch			02/08/2012

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Process U	nit: 12-21										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3-00444	VALVE/ CTRL	2.00	12P165/166 CLP12FC0308								
				01/20/2012	M21	16700 PPM	VLV-PKG	01/20/2012	VLV-CL	12.00	
				01/24/2012	M21	12 PPM		01/24/2012	VLV-TP		01/24/2012
3-00732	VALVE	0.75	CTRL LOOP S PF 21V3	02/03/2012	M21	18200 PPM	VLV-CONN EC	02/03/2012	VLV-CL	22000.00	
				02/03/2012	2 M21	22000 PPM		02/08/2012	VLV-TGA UGE	363.00	
				02/08/2012	M21	363 PPM					02/08/2012
3-01583	VALVE/ GATE	8.00	8" GATE IN FLOOR/C3/C4 O COOLER-12-12-12	VHD OVHD							
				02/02/2012	M21	68500 PPM	VLV-FLG	02/02/2012	VLV-CAP	44100.00	
				02/02/2012	2 M21	44100 PPM		02/10/2012	VLV-TFL G	370.00	
				02/10/2012	2 M21	370 PPM					02/10/2012
3-01822	VALVE/ GATE	3.00	1/1 21V3 REPLACEMENT IN 33424	KIND WITH TAG *	** Placed o	n Delay for Turnard	ound on 09/05/	2007 Remove	d From Tur	naround List or	11/23/2010
			55121	08/21/2007	7 M21	184900 PPM	VLV-PKG	08/21/2007	VLV-TP	184900.00	
				08/21/200	7 M21	184900 PPM					
				08/21/200	7 M21	38000 PPM		08/28/2007	VLV-INJ	39000.00	
				08/28/200	7 M21	39000 PPM		08/28/2007	VLV-INJ	38000.00	
				08/28/200	7 M21	38000 PPM					
				09/12/200	7 M21	38000 PPM					
				10/31/200	7 M21	1938 PPM					
				11/06/200	7 <b>M</b> 21	601 PPM		11/06/2007	VLV-TIG	1334.00	
				11/06/200	7 M21	1334 PPM					
				11/29/200	7 VIS	F					
				11/29/200	7 <b>M2</b> 1	9520 PPM					
				12/07/200	7 VIS	Р					

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Process U	nit: 12-21										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and district class the	AND DESCRIPTION OF THE OWNER, WHEN	AC						
				12/28/2007	M21	155 PPM					
				02/07/2008	M21	606 PPM		02/07/2008	VLV-TIG	789.00	
				02/07/2008	M21	789 PPM					
				05/23/2008	M21	898 PPM		05/23/2008	VLV-TGA UGE	1833.00	
				05/23/2008	M21	1833 PPM	W				
				08/13/2008	M21	1435 PPM		08/13/2008	VLV-TGA UGE	404.00	
				08/13/2008	M21	404 PPM					
				09/11/2008	M21	30 PPM					
				10/21/2008	M21	1211 PPM		10/21/2008	VLV-TGA UGE	1072.00	
				10/21/2008	M21	1072 PPM					
				11/11/2008	M21	18 PPM					
				12/17/2008	M21	8 PPM					
				01/27/2009	M21	29 PPM					
				02/17/2009	M21	850 PPM		02/17/2009	VLV-TGA UGE	1110.00	
				02/17/2009	M21	1110 PPM					
				03/20/2009	M21	2019 PPM		03/20/2009	VLV-TGA UGE	1513.00	
				03/20/2009	M21	1513 PPM					
				04/30/2009	M21	23 PPM					
				05/06/2009	M21	2605 PPM		05/06/2009	VLV-TGA UGE	3027.00	
				05/06/2009	M21	3027 PPM				_	
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	897 PPM		07/31/2009	VLV-TGA UGE	923.00	

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rocess L	71110. 12-2-1						Dort		19 <u>22</u> 2		
ag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Complete
						000 DDM					
				07/31/2009	M21	923 PPM		20/20/2020	VLV-TGA	2226.00	
				08/06/2009	M21	1438 PPM		08/06/2009	UGE	2226.00	
				08/06/2009	M21	2226 PPM					
				09/23/2009	M21	1469 PPM		09/23/2009	VLV-TGA UGE	705.00	
				09/23/2009	M21	705 PPM					
				10/28/2009	M21	6 PPM					
				11/17/2009	M21	657 PPM		11/17/2009	VLV-TGA UGE	772.00	
				11/17/2009	M21	772 PPM					
				12/30/2009	M21	909 PPM		12/30/2009	VLV-TIG	652.00	
				12/30/2009	M21	652 PPM					
				01/26/2010	M21	547 PPM		01/26/2010	VLV-TIG	544.00	
				01/26/2010	M21	544 PPM					
				02/10/2010	M21	128 PPM					
				03/10/2010	M21	27.39 PPM	1514554	04/14/2010	VLV-TP	2200.00	
				04/14/2010	M21	2200 PPM					
				05/10/2010	M21	653 PPM					
				06/29/2010	M21	187 PPM		07/30/2010	VLV-TP	571.00	
				07/30/2010	M21	571 PPM		07/30/2010	VLV-TP	625.00	
				07/30/2010	M21	625 PPM		08/17/2010	VLV-TP	518.00	Illege
				08/17/2010	M21	518 PPM		08/17/2010	VLV-TP	450.00	
				08/17/2010	M21	450 PPM			W5-5		
				09/24/2010	M21	1.8 PPM		10/07/2010	VLV-TP	591.00	
				10/07/2010	M21	591 PPM					
				10/07/2010	M21	543 PPM		11/23/2010	VLV-RV	2.00	
				11/23/2010	M21	2 PPM					

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Process L	Jnit: 12-21										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
33537	VALVE/ CTRL	4.00	CTRL LP E OF 12C8 PLTFM	12UC0418 **	* Placed o	n Delay for Turnard	ound on 11/22	/2011			
				01/20/2012	M21	82400 PPM	VLV-PKG	01/20/2012	VLV-CP	50100.00	
				01/20/2012	M21	50100 PPM		02/03/2012	VLV-CL	13600.00	
				02/03/2012	M21	13600 PPM					
				02/03/2012	M21	10500 PPM					
				03/21/2012	M21	87.13 PPM					
34167	VALVE	2.00	12V26 LVL2 SW SIDE - 12FC DEPROP NET OVHD LIQUID								•
				02/07/2012	M21	35500 PPM	VLV-PKG	02/07/2012	VLV-CL	974.00	
				02/07/2012	M21	974 PPM					02/07/2012
41484	PUMP	0.00	@ 12P166. S OF 12V5 50FT.								
				02/06/2012	M21	10100 PPM	PMP-TUB	02/06/2012	PMP-TFI	0.00	
				02/06/2012	VIS	F		02/07/2012	PMP-TFI	0.00	
				02/07/2012	VIS	Р					No.
				02/07/2012	M21	84 PPM					02/07/2012

	Process Unit 12-21 Su	ımmary	
	Component Count	Leak Count	
Total in Group	18	18	
Total Valves	15 (13)	15	
Total Pumps	2	2	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	1	1	
Total Agitators	0	0	
Total Other Equipment	0	0	

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					Test		Part			5	_
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
13854	VALVE	0.50	DEETH REFLUX D.P. CELL AI ORFICE-13-13-13-13	ND							
				01/20/2012	M21	45800 PPM	VLV-PKG	01/20/2012	VLV-CL	25400.00	
			8	01/20/2012	M21	25400 PPM		02/03/2012	VLV-TP	75.00	
			<i>**</i>	02/03/2012	M21	75 PPM					02/03/2012
13864	VALVE/ NEEDLE	0.25	13E4 SMPL PNL								
				02/23/2012	M21	18300 PPM	VLV-CONN EC	02/23/2012	VLV-CL	238600.00	
				02/23/2012	M21	238600 PPM		02/24/2012	VLV-CL	8.00	
				02/24/2012	M21	8 PPM					02/24/2012
14992 V	VALVE	0.75	NE SDE 13E3B								
				03/19/2012	M21	12300 PPM	VLV-SCR	03/19/2012	VLV-CL	12900.00	
				03/19/2012	M21	12900 PPM		03/20/2012	VLV-TPL G	15.00	
			8	03/20/2012	M21	15 PPM					03/20/2012
15060	VALVE	0.75	W OF 13E4 CTRL LP 13FC470	03/20/2012	M21	12000 PPM	VLV-PLUG	03/21/2012	VLV-TPL G	13.00	
			9	03/21/2012	M21	13 PPM		NAC TANDA	370		03/21/2012
19901	VALVE	0.75	NE OF 13E3A ON PLATFORM								
				03/19/2012	M21	31900 PPM	VLV-SCR	03/19/2012	VLV-CL	324400.00	
				03/19/2012	M21	324400 PPM		03/20/2012	VLV-TCO N	10000.00	
				03/20/2012	M21	10000 PPM					
24769 V/	VALVE/ GATE	0.75	CNTLP 4' E 13E3A @ ORIFAC	E 03/19/2012	M21	15500 PPM	VLV-PLUG	03/20/2012	VLV-TPL G	130.00	
				03/20/2012	M21	130 PPM			19 <del>-</del> 3/		03/20/2012

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Process L	Jnit: 13										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3-00288	PUMP	0.00	13P295	01/20/2012	M21	62300 PPM	PMP-SCR	01/20/2012	PMP-ST M	11400.00	
				01/20/2012	M21	11400 PPM		01/24/2012	PMP-TFI	10000.00	
				01/24/2012	M21	10000 PPM					
				01/24/2012	VIS	Р					
				01/30/2012	VIS	Р		01/31/2012	PMP_RFI T	14.00	
				01/31/2012	M21	14 PPM		01/31/2012	PMP-SEJ	14.00	
				01/31/2012	M21	14 PPM					01/31/2012
40363 VA	VALVE/ BALL	0.75	E SDE 13E3A TOP SG	02/23/2012	M21	17100 PPM	VLV-CONN EC	02/23/2012	VLV-CL	298700.00	***************************************
				02/23/2012	M21	298700 PPM		02/24/2012	VLV-TCO N	5300.00	
				02/24/2012	M21	5300 PPM					02/24/2012
41355	PUMP	0.00	13P294	01/20/2012	M21	14200 PPM	PMP-SCR	01/20/2012	PMP-ST M	21600.00	
				01/20/2012	M21	21600 PPM		01/24/2012	PMP-TFI	4700.00	
				01/24/2012	M21	4700 PPM			110000		
				01/24/2012	VIS	Р					01/24/2012
				J							

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Reporting Period 01/01/2012 - 03/31/2012

Process l	Jnit	:	13
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Part Test Repair Repair Remonitor Date Reading Method PPM Reading Tag Number Part / Type Size Location Monitor Date Leaking Date Method Completed

	Process Unit 13 Sun	nmary
	Component Count	Leak Count
Total in Group	9	9
Total Valves	7	7
Total Pumps	2	2
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-VV

		•	1	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
Tag Number	Part / Type	Size	Location	WOMEOF Date	Wethou	T F W Reading	Louning				was being the last of
23189	VALVE	0.75	SE SDE 14C3 OVHD	01/06/2012	M21	100000	VLV-TUB	01/06/2012	VLV-CAP	100000.00	
				01/06/2012	M21	100000 PPM		01/06/2012	VLV-TCO N	3471.00	
				01/06/2012	M21	3471 PPM		01/06/2012	VLV-SEJ	2.00	
				01/06/2012	M21	2 PPM					01/06/2012
23296	VALVE	0.75	L3 PLAT ABOVE COMP DECK	01/06/2012	M21	10600 PPM	VLV-FLG	01/18/2012	VLV-TFL G	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	2 PPM					01/18/2012

	Process Unit 14 Sur	nmary	
	<b>Component Count</b>	Leak Count	
Total in Group	2	2	
Total Valves	2	2	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NSPS-GGGA

Process U	nit : 16										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
6570	VALVE/	0.75	10' EAST OF 16H3 REBOILER	ON CONTROL							
	BLEEDER		LOOP 16PC0518			5700 DD14	VII.V BILLIO			1001.00	
				01/20/2012		5766 PPM	VLV-PLUG	01/20/2012	VLV-CL	1284.00	
				01/20/2012	7 (000,000,000,000,000,000,000,000,000,00	1284 PPM		211211212	\		
				01/20/2012	M21	4629 PPM		01/24/2012	VLV-TPL G	6.00	
			•	01/24/2012	M21	6 PPM					01/24/2012
6639	VALVE/ GATE	1.00	NHT CHG HTR 16H4 BTM FUE	EL LP							
				02/07/2012	M21	27200 PPM	VLV-PKG	02/07/2012	VLV-CL	32200.00	
				02/07/2012	M21	32200 PPM		02/10/2012	VLV-TP	73.00	
			(8	02/10/2012	M21	73 PPM				***************************************	02/10/2012
6641	VALVE/ GATE	0.75	NHT CHG HTR 16H4 BTM FUE	EL LP @PI							
				02/07/2012	M21	1295 PPM	VLV-PKG	02/07/2012	VLV-CP	2866.00	
			£	02/07/2012	M21	2866 PPM		02/10/2012	VLV-TP	8.00	
			} <del>•</del>	02/10/2012	M21	8 PPM					02/10/2012
6840	PUMP/ CENTRIF	0.00	16P98 SOUTHWEST OF 16V2								
				03/21/2012	M21	2134 PPM	PMP-SCR	03/21/2012	PMP-ST M	2106.00	
				03/21/2012	M21	2106 PPM		03/22/2012	PMP-TFI	204.00	
				03/22/2012	M21	204 PPM					03/22/2012
6925	VALVE/ BLEEDER	0.75	16V2 PROD SEP H2O BOOT	SG BLDR							
				02/08/2012	M21	593 PPM	VLV-PKG	02/08/2012	VLV-TP	373.00	
			ş. <del>.</del>	02/08/2012	M21	373 PPM		,,			02/08/2012
6925	VALVE/ BLEEDER	0.75	16V2 PROD SEP H2O BOOT	SG BLDR							
				03/23/2012	M21	658 PPM	VLV-BON	03/23/2012	VLV-CL	965.00	10.
			î. <del>.</del>	03/23/2012	M21	965 PPM		03/26/2012	VLV-CL	35.00	20 m

Program: NSPS-GGGA

Process U	Init : 16										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/26/2012	M21	35 PPM					03/26/2012
6927	VALVE/ BLEEDER	1.00	WEST OF 16V2 ON PLATFORM	VI							
				01/20/2012	M21	79200 PPM	VLV-SCR	01/20/2012	VLV-CL	10500.00	
				01/20/2012	M21	10500 PPM					
			-	01/24/2012	M21	3000 PPM		01/31/2012	VLV-TFIT T	12.00	
			-	01/31/2012	M21	12 PPM				101	01/31/2012
6945	VALVE/ NEEDLE	0.25	10' SOUTH OF 16P86 DP CELL	_ @ PILLAR							
				01/20/2012	M21	20100 PPM	VLV-SCR	01/20/2012	VLV-CL	41100.00	
			-	01/20/2012	M21	41100 PPM		01/24/2012	VLV-CL	54.00	
			-	01/24/2012	M21	54 PPM					01/24/2012
7014	VALVE/ CTRL	8.00	CONTROL LOOP 16FC0746 EA	AST SIDE OF							
				02/08/2012	M21	615 PPM	VLV-PKG	02/08/2012	VLV-CL	659.00	
			-	02/08/2012	M21	659 PPM		02/10/2012	VLV-CP	104.00	
			,-	02/10/2012	M21	104 PPM					02/10/2012
7014	VALVE/ CTRL	8.00	CONTROL LOOP 16FC0746 EA	AST SIDE OF							
				03/23/2012	M21	1259 PPM	VLV-PKG	03/23/2012	VLV-CL	1542.00	
			·	03/23/2012	M21	1542 PPM		03/26/2012	VLV-CP	82.00	
			:-	03/26/2012	M21	82 PPM					03/26/2012
7060	VALVE/ NEEDLE	0.50	SOUTH SIDE OF PUMP 16P27 DISCHARGE LINE @ GAUGE	1 ON							
				01/20/2012	M21	1334 PPM	VLV-TUB	01/20/2012	VLV-CL	1002.00	
			9 <del>7</del>	01/20/2012	M21	1002 PPM		01/24/2012	VLV-CL	200.00	
			0 <del>5</del>	01/24/2012	M21	200 PPM	11/26				01/24/2012
7230	PUMP	0.00	PUMP 16P299A NHT REFLUX	SE 16V4 02/10/2012	M21	3201 PPM	PMP-SEAL	02/10/2012	PMP-WS	5931.00	

Program: NSPS-GGGA

Process U	nit : 16										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
7230	PUMP	0.00	PUMP 16P299A NHT REFLUX	SE 16V4							
			, <u>-</u>						E		
			:-	02/10/2012	M21	5931 PPM					
				02/13/2012	VIS	Р		02/13/2012	PMP-WS E	197.00	
			***	02/13/2012	M21	197 PPM					02/13/2012
7230	PUMP	0.00	PUMP 16P299A NHT REFLUX	SE 16V4							
				03/23/2012	M21	5325 PPM	PMP-SCR	03/23/2012	PMP-WS E	3413.00	
				03/23/2012	M21	3413 PPM		03/26/2012	PMP-TIG	20.00	
			· -	03/26/2012	M21	20 PPM					
			» <del>-</del>	03/26/2012	VIS	Р				100000000000000000000000000000000000000	03/26/2012
7247	VALVE/ CTRL	3.00	CONTROL LOOP 16FC0051 E/ 16P299A	AST OF							
				02/10/2012	M21	13700 PPM	VLV-PKG	02/10/2012	VLV-CL	12300.00	
				02/10/2012	M21	12300 PPM		02/13/2012	VLV-CP	2.00	
			·-	02/13/2012	M21	2 PPM					02/13/2012
7291	VALVE/ CTRL	4.00	CONTROL LP 16FC0678 10' S	OUTH OF 16V3							
				02/09/2012	M21	888 PPM	VLV-PKG	02/09/2012	VLV-CL	1116.00	
				02/09/2012	M21	1116 PPM		02/13/2012	VLV-CP	27.00	
				02/13/2012	M21	27 PPM					02/13/2012
7291	VALVE/ CTRL	4.00	CONTROL LP 16FC0678 10' S								
			12	03/23/2012	M21	1065 PPM	VLV-PKG	03/23/2012	VLV-CL	877.00	
			=	03/23/2012	M21	877 PPM		03/26/2012	VLV-CP	35.00	
				03/26/2012	M21	35 PPM					03/26/2012
7313	VALVE/ BALL CHECK	0.75	L1 16V3 @ SIGHTGLASS								
			22	01/20/2012	M21	1812 PPM	VLV-SCR	01/20/2012	VLV-CL	1076.00	
			-	01/20/2012	M21	1076 PPM		01/24/2012	VLV-CL	182.00	
			·	01/24/2012	M21	182 PPM					01/24/2012

Program: NSPS-GGGA

Process U	Init : 16										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
7317	VALVE/ BALL	0.75	L1 16V3 UPPER BALL CHEC	K ON EAST							
	CHECK		SIGHT GLASS	02/09/2012	M21	4292 PPM	VLV-CONN EC	02/09/2012	VLV-CL	24300.00	
				02/09/2012	M21	24300 PPM		02/13/2012	VLV-TCO N	28.00	
				02/13/2012	M21	28 PPM					02/13/2012
7544	VALVE/ CTRL	8.00	EAST OF BW BOILER @ FU 27FC0035	EL GAS LINE.							
				02/09/2012	M21	759 PPM	VLV-PKG	02/09/2012	VLV-CL	656.00	
				02/09/2012	M21	656 PPM		02/13/2012	VLV-CP	198.00	
				02/13/2012	M21	198 PPM					02/13/2012
7544	VALVE/ CTRL	8.00	EAST OF BW BOILER @ FU 27FC0035	EL GAS LINE.							
				03/26/2012	M21	802 PPM	VLV-PKG	03/26/2012	VLV-CL	755.00	
				03/26/2012	M21	755 PPM		03/27/2012	VLV-TP	19.00	
				03/27/2012	M21	19 PPM					03/27/2012
7630	VALVE/ BLEEDER	0.75	@ CNTRL LOOP N OF 25V2	FLARE K.O. POT.							
				02/09/2012	M21	508 PPM	VLV-PKG	02/09/2012	VLV-TP	98.10	
				02/09/2012	M21	98.1 PPM					02/09/2012
7682	VALVE/ BLEEDER	0.50	20FT NE OF CP FLARE.								
				02/24/2012	M21	2619 PPM	VLV-PKG	02/24/2012	VLV-TP	108.00	
				02/24/2012	M21	108 PPM					02/24/2012
7686	VALVE/ BLEEDER	0.75	20FT NE OF CP FLARE.								
				02/24/2012	M21	5811 PPM	VLV-PKG	02/24/2012	VLV-TP	5487.00	
				02/24/2012	M21	5487 PPM		02/27/2012	VLV-TP	2.00	
				02/27/2012	M21	2 PPM					02/27/2012

Program: NSPS-GGGA

Process U	nit: 16										
Tag Number	Part / Type	Size	Location		Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
7949	VALVE/ BALL	0.25	MSAT HNS REFLUX SAMP S 16E17	TAT 20FT W OF							
				02/14/2012	M21	2392 PPM	VLV-CONN EC	02/14/2012	VLV-CL	3583.00	
				02/14/2012	M21	3583 PPM		02/15/2012	VLV-CL	217.00	
				02/15/2012	M21	217 PPM					02/15/2012
8040	VALVE/ GATE	0.75	MSAT 16V15 HNS OVHD REG	CV SG TOP							
				01/20/2012	M21	8299 PPM	VLV-PLUG	01/20/2012	VLV-CL	2445.00	
				01/20/2012	M21	2445 PPM		01/24/2012	VLV-TPL G	54.00	
				01/24/2012	M21	54 PPM					01/24/2012

	Process Unit 16 Sun	nmary
	Component Count	Leak Count
Total in Group	20	25
Total Valves	18	22
Total Pumps	2	3
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-GGGA

Process U	Init	:	19
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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
0632	VALVE/ BALL	0.75	19V7 KO DRUM SG TOP BV								
				01/10/2012	M21	1922 PPM	VLV-SCR	01/10/2012	VLV-CL	10700.00	
				01/10/2012	M21	10700 PPM		01/11/2012	VLV-TFIT T	23.00	
				01/11/2012	M21	23 PPM					01/11/2012
0632	VALVE/ BALL	0.75	19V7 KO DRUM SG TOP BV								
			*	03/21/2012	M21	1698 PPM	VLV-CONN EC	03/21/2012	VLV-CL	208.00	
				03/21/2012	M21	208 PPM					03/21/2012
0703	VALVE/ GATE	1.50	S of 19V4								
				01/10/2012	M21	513 PPM	VLV-PKG	01/10/2012	VLV-CL	609.00	
				01/10/2012	M21	609 PPM		01/11/2012	VLV-CL	66.00	
				01/11/2012	M21	66 PPM					01/11/2012

Process U	nit 19	Summary
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	Process Unit 19 Sun	nmary
	Component Count	Leak Count
Total in Group	2	3
Total Valves	2	3
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-GGGA

Process U	nit : 29				Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
30085	VALVE/ GATE	8.00	TOP OF 29T48A								
				01/04/2012	M21	579 PPM	VLV-PKG	01/04/2012	VLV-TP	557.00	
				01/04/2012	M21	557 PPM		01/05/2012	VLV-TP	32.00	
				01/05/2012	M21	32 PPM					01/05/2012

	Process Unit 29 Sun	nmary	
	Component Count	Leak Count	
Total in Group	1	1	
Total Valves	1	1	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Process U	Init: 29				Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
1153	VALVE/ GATE	4.00	API INTERMEDIATE E SIDE B	Y STAIRS							
				01/04/2012	M21	1942 PPM	VLV-PKG	01/04/2012	VLV-CP	2419.00	
				01/04/2012	M21	2419 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	27 PPM					01/18/2012
1154	VALVE/ BALL	4.00	API INTERMEDIATE E SIDE B	Y STAIRS							
				01/04/2012	M21	336 PPM	VLV-PKG	01/04/2012	VLV-CL	3044.00	
				01/04/2012	M21	3044 PPM					
				01/04/2012	M21	3383 PPM		01/18/2012	VLV-CL	0.00	
			9.	01/18/2012	VIS	Р					
			L.	01/18/2012	M21	108 PPM					01/18/2012
1155	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDDL	.E							
				01/04/2012	M21	1471 PPM	VLV-PKG	01/04/2012	VLV-CP	2914.00	
			3.5	01/04/2012	M21	2914 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	301 PPM					01/18/2012
1156	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDDL	E							
				01/04/2012	M21	1367 PPM	VLV-PKG	01/04/2012	VLV-CL	1167.00	
				01/04/2012	M21	1167 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	257 PPM					01/18/2012
1157	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDDL	.E							
				01/04/2012	M21	1539 PPM	VLV-PKG	01/04/2012	VLV-CP	2045.00	
			***	01/04/2012	M21	2045 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	92 PPM					01/18/2012
1160	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDDL								
				01/04/2012	M21	1764 PPM	VLV-PKG	01/04/2012	VLV-CL	2524.00	
				01/04/2012	M21	2524 PPM					
				01/04/2012	M21	708 PPM		01/18/2012	VLV-CL	0.00	

Process U	Init: 29 Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
			350								
				01/18/2012	VIS	Р					
				01/18/2012	M21	75 PPM					01/18/2012
1161	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDD	LE							
				01/04/2012	M21	1852 PPM	VLV-PKG	01/04/2012	VLV-CL	2293.00	
				01/04/2012	M21	2293 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					•
				01/18/2012	M21	76 PPM					01/18/2012
1162	VALVE/ GATE	4.00	API INTERMEDIATE IN MIDD	LE							
				01/04/2012	M21	808 PPM	VLV-PKG	01/04/2012	VLV-CL	1807.00	
				01/04/2012	M21	1807 PPM		01/18/2012	VLV-CL	0.00	
				01/18/2012	VIS	Р					
				01/18/2012	M21	92 PPM					01/18/2012
30085	VALVE/ GATE	8.00	TOP OF 29T48A								
				01/04/2012	M21	579 PPM	VLV-PKG	01/04/2012	VLV-TP	557.00	
				01/04/2012	M21	557 PPM		01/05/2012	VLV-TP	32.00	
				01/05/2012	M21	32 PPM					01/05/2012

	Process Unit 29 Sun	nmary
	Component Count	Leak Count
Total in Group	9	9
Total Valves	9	9
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-VV

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5881A	VALVE	6.00	NORTH SIDE OF TK126 NEA	R CATWALK							
				01/16/2012	M21	11600 PPM	VLV-CAP	01/16/2012	ATTB	21400.00	
				01/16/2012	M21	21400 PPM		01/17/2012	VLV-TCA P	89.00	
				01/17/2012	M21	89 PPM					01/17/2012

	Process Unit 34 Sun	nmary
	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NSPS-VV

					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
30551	PUMP/ CENTRIF	0.00	PUMP AT AA-10 -2 TERM								
				03/27/2012	VIS	F	PMP-SEAL	03/27/2012	PMP-WS E	38200.00	
				03/27/2012	M21	38200 PPM					
				03/27/2012	M21	4216 PPM		03/28/2012	PMP-WS E	120.00	
				03/28/2012	M21	120 PPM					
				04/05/2012	VIS	Р					04/05/2012

	Process Unit TERM S	ummary
	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Table 3
Regulatory Leakers Requiring Delay of Repair - First Quarter 2012
Michigan Refining Division

Complex	Unit	VOC Tag I.D.	Comp type	Date leak first detected	Component Description	Reason for delay of repair	Date Placed on delay of repair	Date of Actual/Anticipated Repair
2	8	8777	PSV	2/16/2012	8PSV6810	Requires unit shutdown	2/22/2012	11/30/2012
2	9	9C1	Compressor	11/12/2009	09C1 Seal leaking on East Side of housing	Requires unit shutdown	11/23/2009	10/31/2012
2	9	15601	Sightglass	12/15/2011	PLTFRM E 9V18	Requires unit shutdown	1/6/2012	10/31/2012
4	16	25599	Valve	11/20/2009	Bonnet of gate valve leaking control loop SE of 16V9	Isolated From VOC Service	12/18/2009	10/31/2012
3	12	33537	Valve	11/10/2011	Cntrl Loop East of 12C8 Platform 12UC0418	Requires unit shutdown	11/23/2011	11/30/2012
3	12	14512	Sightglass	2/2/2012	Sight Glass 3rd levl 12V41	Requires unit shutdown	2/16/2012	11/30/2012

Table 4
Wastewater System Monitoring - First Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final Repair	Final Repair Date
4	19	260	12/27/2011	Drain at KHT Reflux Pump (19P3B)	Add Water	Add Water	Water Added	2/22/2012
4	19	261	12/27/2011	Drain at KHT Reflux Pump (19P3A)	Add Water	Add Water	Water Added	1/24/2012
3	11	580	1/2/2012	Junction Box Southwest of Cooling Tower C in Roadway	Secure Lid	Secure Lid	Lid Secured	1/5/2012
1	4	696	1/4/2012	Drain South of 4P4A	Add Water	Add Water	Water Added	1/11/2012
1	5	003	1/4/2012	Drain 5 feet South of 5E31C	Install Plug	Install Plug	Plug Installed	1/11/2012
1	5	460	1/4/2012	Drain South Side of 5P60A	Add Water	Add Water	Water Added	1/19/2012
1	5	761	1/4/2012	Junction Box 6 feet West of 4E38A	Secure Lid	Secure Lid	Lid Secured	1/5/2012
1	5	056	1/5/2012	Drain Northeast of 5P5B	Install Plug	Install Plug	Plug Installed	1/11/2012
1	29	729	1/5/2012	Junction Box 12 feet Northwest of API Garage	Secure Lid	Secure Lid	Lid Secured	1/6/2012
5	34	384	1/9/2012	Junction Box Northeast of Tank 24 in Dike	Secure Lid	Secure Lid	Lid Secured	1/10/2012
1	5	187	1/11/2012	Drain South Side of 5P61B	Add Water	Add Water	Water Added	1/19/2012
2	7	284	1/11/2012	Area Drain North 7V100	Add Water	Add Water	Water Added	1/18/2012
2	7	311	1/11/2012	Catch Basin in Roadway South of Control Room	Add Water	Add Water	Water Added	1/18/2012
2	42	611	1/11/2012	Drain 5 feet Northwest of 42V6	Add Water	Add Water	Water Added	1/18/2012
1	4	696	1/19/2012	Drain South of 4P4A	Add Water	Add Water	Water Added	1/25/2012
4	16	887	1/30/2012	Junction Box 5 feet East of 16V16	Secure Lid	Secure Lid	Lid Secured	2/1/2012
1	29	721	2/1/2012	Junction Box N of Tank 33	Secure Lid	Secure Lid	Lid Secured	2/2/2012
3	12-21	878	2/6/2012	Drain 3 feet West of 12P144	Add Water	Add Water	Water Added	2/15/2012
4	19	261	2/6/2012	Drain at KHT Reflux Pump (19P3A)	Add Water	Add Water	Water Added	2/22/2012
1	5	056	2/8/2012	Drain NE of 5P5B	Install Plug	Install Plug	Plug Installed	2/14/2012
1	5	057	2/8/2012	Drain SE of 5P5A	Install Plug	Install Plug	Plug Installed	2/14/2012
1	5	738	2/8/2012	Drain 2 feet West of 5P4B	Add Water	Add Water	Water Added	2/14/2012
4	19	260	3/1/2012	Drain at KHT Reflux Pump (19P3B)	Work Order Written	Install Plug	Plug Installed	4/2/2012
3	12-21	337	3/5/2012	Water Sealed CB E of 12V26	Add Water	Add Water	Water Added	3/13/2012
1	5	347	3/6/2012	CB 3 feet West of E Cooling Tower	Add Water	Add Water	Water Added	3/16/2012
2	7	284	3/7/2012	Area Drain North 7V100	Add Water	Add Water	Water Added	3/15/2012
1	29	N/A	3/7/2012	DEPT SE Hatch	Tighten Hatch	Tighten Hatch	Hatch Tightened	3/16/2012
3	12-21	878	3/13/2012	Drain 3 ft West of 12P144	Add Water	Add Water	Water Added	3/20/2012
2	7	629	3/15/2012	Drain at 7V67	Install Plug	Install Plug	Plug Installed	3/21/2012
1	4	705	3/21/2012	Drain N. Side of 4C4B (Cleanout)	Install Plug	Install Plug	Plug Installed	3/27/2012
2	7	311	3/21/2012	Catch Basin in Roadway N of 7P105A	Add Water	Add Water	Water Added	3/28/2012

Table 4
Wastewater System Monitoring - First Quarter 2012
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final Repair	Final Repair Date
4	16	494	3/26/2012	Drain S of 27V21	Install Plug	Install Plug	Plug Installed	4/2/2012
4	19	401	3/26/2012	Drain 25 ft E of 19V7	Add Water	Add Water	Water Added	4/2/2012
1	4	683	3/27/2012	Drain SE of 4V8	Install Plug	Install Plug	Ongoing	Ongoing
1	5	187	3/27/2012	Drain S Side of 5P61B	Add Water	Add Water	Ongoing	Ongoing
1	5	460	3/27/2012	Drain S Side of 5P60A	Add Water	Add Water	Ongoing	Ongoing
1	42	611	3/28/2012	Drain 5ft NW of 42V6	Add Water	Add Water	Water Added	Ongoing
1	29	430	3/29/2012	Drain SW of 29T42	Add Water	Add Water	Water Added	Ongoing

# Table 5 NSR Consent Decree Information Paragraphs 20B and 18P - First Quarter 2012 Michigan Refining Division

Measures that MPC took during the 1st Quarter 2012 to satisfy the provisions of Paragraph 20B and 18P(ii)(b) of the NSR Consent Decree:

Subparagraph	Requirement	Measures taken
20Bi	Training for personnel newly-assigned to LDAR	Greg Shay completed training in July 2009 for LDAR.
20Bii	Annual training for regular LDAR personnel	Regular LDAR work is contracted through Emissions Monitoring Service, Inc (EMSI Inc.) and Seal-Tech. EMSI and Seal-tech trains all personnel, training records are kept on-site.
20Biii	Training for Ops/Maint personnel	Refinery employees are required to complete a yearly Environmental Awareness CBT (Computer Based Training) module. This module, includes training information on the LDAR Program, was initiated on March 12, 2002. Additionally, contractors are required to attend a safety orientation on a yearly basis which includes information on the LDAR Program.
18P(ii)(b)	Laboratory Audits	The Detroit Refinery now has the ability to use RAD, ESC Labs of Nashville, TN, and Bureau Veritas of Livonia, MI to run all BWON samples. The Detroit Refinery began using ESC Labs of Nashville, TN on June 22, 2010.
18P(ii)(b)	Training	Affected Refinery employees are required to complete a yearly Benzene Sampling CBT (Computer Based Training) module. This module, includes training information on the Benzene NESHAP Program, was initiated on August 2002.
18P(ii)(b)	EOL Sampling Results	The EOL Sampling program was approved on March 8, 2010 for the Detroit Refinery. See Table 9 for EOL calculations.

Table 6

NSR Consent Decree Information Paragraph 20Oiic(2) - First Quarter 2012

Michigan Refining Division

Complex	Unit	Description	Month monitored	# valves monitored	# pumps monitored	# compressors monitored	GGG # components leaking/quarter	GGGa # components leaking/quarter	# DTM components	Projected month of next monitoring
- 12	4	Vacuum Unit	Mar-12	464	5	2	na	3	2	Jun-12
1	5	Crude Unit	Mar-12	2,252	32	0	2	na	15	Jun-12
	29	Wastewater Plant	Jan-12	726	16	0	na	9	0	Apr-12
	7	Distillate Hydrotreater Unit	Mar-12	1,261	20	3	2	na	22	Jun-12
2	8	Gas Oil Hydrotreater Unit	Feb-12	1,689	5	2	1	na	27	May-12
	9	Alkylation Unit	Jan-12	2,043	30	1	26	na	35	Apr-12
	11	Fluid Catalytic Cracking Unit	Mar-12	460	6	0	0	na	4	Jun-12
3	12/21	Gas Con/SATS Depropanizer	Feb-12	1,961	27	1	15	na	16	May-12
	13	Propylene Unit	Mar-12	691	9	3	9	na	4	Mar-12
	14	Continuous Catalytic Reforming Unit	Jan-12	2,031	14	2	2	na	31	Apr-12
4	16	Naphtha Hydrotreater Unit	Feb-12	1,657	19	0	na	20	27	May-12
	19	Kerosene Hydrotreater Unit	Jan-12	653	8	1	na	2	0	Apr-12
	1	Crude Tank Farm	Feb-12	823	24	0	4	na	6	May-12
5	2	LPG Tank Farm	Mar-12	2,143	20	0	15	na	10	Jun-12
	3/4	CP/Melvindale Tank Farms	Jan-12	1,510	26	0	1	na	9	Apr-12
	38	Rouge Terminal	Feb-12	50	2	0	na	1	- 70 	May-12
		Light Product Terminal	Jan-12	808	15	0	1	na	0	Apr-12

GGG/GGGa leaking component counts includes; valves, pumps and compressors.

1Q2012LDAR D\_NESHAP 1.xls; Table 6

Revised stream/equipment name/status	Required monitoring/inspections	Inspection Status	Monitoring/ inspection rule	Equipment Classification	Note No.	Visual	Method 21*
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				х
SR Platformer Aromatics Sump (aka CP Sump)	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)			$\vdash$	Х
Piping from the CP Sump to the CP Flare Secondary Knockout Drum (25V2)	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
CP Sump Line from 14P10 to Sour Water Collection Tank (11V25) and Low Pressure Receiver (11V4)	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
Production who have been added and the second second as	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	for Completed	61.343(a)(1)(i)(A)				х
CP Flare Knockout Drums - Primary (25V1) and Secondary (25V2)	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.		61.343(c)	Tanks		x	
0000 10 2000000 1000	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	6	61.346(a)(1)(i)(A)				Х
Piping from CP Flare Knockout Drums to the Slop Tanks 23/508 or the Low Pressure Receiver (11V4)	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Dining from Alley Speed Countin Holding Tools (0)(24) to Alley	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Piping from Alky Spent Caustic Holding Tank (9V31) to Alky Flare Knockout Drum (9V38)	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for	Completed	61.349(f)	Closed Vent System		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)	2			Х
Piping from Spent Caustic Drum (21V47) to CP Flare	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
Piping from Relief Valve of Merox System to CP Flare	Do not need to monitor or inspect this piping since it's now going to the flare system. Point of generation is the Flare Knockout Drum discharge.	-	N/A	-			
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
ing from Disulfide Separator (21V33 or #3 Merox) to Slop Tanks 23/508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)	Tanks			х
Tanks 508 and 23			61.343(c)	June		x	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored		04.040/-1/41/01/11		Г		x
	initially and annually for NDE.		61.346(a)(1)(i)(A)			╙	Ľ
Piping from Tank 507 to Slop Tanks 508 and 23	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
Gravity Drum near Tank 507 (gravity drum near Tank 59 is currently out of service)	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			,
carrottly out or solvice)	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for		61.343(c)			Х	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				)
Tanks 29T40 and 29T41 (Permitted as QQQ tanks with external floating roofs)	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				,
Piping from API separator to Tanks 29T40/41	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Piping from Tanks 29T40/41 to Slop Tanks 23 and 508	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			>
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)			х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				,
Piping from Unifiner, Alkylation, GOHT, and Crude Flare Knock-Out Drums to Tanks 23 and 508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Vacuum Trucks	The cover and all openings (e.g., bungs, hatchs, and sampling ports) must be monitored initially and annually for NDE.	Conducted 2nd Quarter 2011	61.345(a)(1)(i)	Containers			>
7333317 113313	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed	61.345(b)	Containers		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				>
iping from NHT Particulate Filter Relief to Refinery Slop System	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				>
Piping from the Disulfide Off-Gas Knockout Drum (12V36) to Refinery Slop System	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	

	T				_	_	_
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				>
Piping from the West Plant Slop System to Slop Tanks 23/508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				)
Piping associated with the carbon canister stations	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Carbon Canisters	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		x	
Water Draw Covers This includes tanks in the Crude tank	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)		Y		Х
farm (6, 36, 39, 40, 41, 45, 46, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, etc).	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
CP Flare	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				Х
Piping from Tank 507 to the Benzene Stripper Column	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		х	1022
	The cover and all openings (e.g., access hatches, sampling ports, etc) must be monitored initially and annually for NDE.		61.348(a)(2)				х
Benzene Stripper Column (5V36)	Each seal, access door, and all other openings shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur and all openings are closed and gasketed properly.	Completed	61.348(e)(1)	Treatment Processes		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Piping from the top of the Benzene Stripper Column (5V36) to the Overhead Condensers (5E41A/B) and to the Overhead Receiver (5V37)	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)			×	Х
Benzene Stripper overhead condensers (5E41A/B)	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Piping from the Crude Desalters (5V31/32) to the Benzene Stripper Column (5V36)	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				x
iping from the Benzene Stripper (5V36) to the Brute Force System	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				х
Brute Force System	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		x	

	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)			Г	х
Tank 507	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Piping from the Benzene Stripper Overhead Receiver (5V37) to the Crude Desalters	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.347(a)(1)(i)(A)		0		×
API separator, forebay, and associated equipment	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur between the cover and oil-water separator wall and that access hatches and other openings are closed and gasketed properly.	Completed	61.347(b)	Oil-Water separators		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Piping from Gravity Drum near Tank 507 to Slop Tanks 23 and 508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Piping at Gravity Drum near Tank 507 and piping at Tank 508 used for Vacuum Truck Operations (Gravity Drum near Tank 59 currently out of service).	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Piping from Tank 51 to Slop Tank 23/508.	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				,
Tank 51/52	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Piping from Tank 52 to Slop Tanks 23/508.	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Piping from CP Flare Secondary Knockout Drum to CP Flare	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Piping on Hydrocarbon/Liquid Line from CP Sump to FCCU Low Pressure Receiver or Refinery Slop System.	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Piping from CP Flare Knockout Drums to the FCCU High and Low Pressure Slop Header	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Piping from CP Sump to FCCU High and Low Pressure Slop Header	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			x
Piping from FCCU High Pressure Slop Header to High Pressure Slop Bullets	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	 x	
Piping from FCCU Low Pressure Slop Header to Low Pressure Slop Bullets	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System		x
	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.		61.346(a)(2)		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)			x
High and low pressure slop bullets	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks	x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Aboveground Sewer Lines from Melvindale or Crude Tank Farms to Tank 507	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Piping from the Marketing Terminal Sewer to Slop Tanks 23/508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Truck Drain Downs at Terminal Loading Rack	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				×
Aboveground piping from Truck Drain Downs to NESHAP Sump	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				×
Terminal NESHAP Sump	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				×
Tank 29T47	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		x	900
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)		211231		×
All piping To and From 29T47	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)		0,82		×
Piping from Spent Caustic Tank (9V10) to New Caustic Pot (9T29)	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				x
Spent Caustic Pot 9T29	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				x
Tank Cleanouts	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Railcars (when applicable to BWON)	The cover and all openings (e.g., bungs, hatchs, and sampling ports) must be monitored initially and annually for NDE.	Conducted 2nd Quarter 2011	61.345(a)(1)(i)	Containers			х
National Symietrapplicable to DYYON)	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed	61.345(b)	Containers		x	
Frac Tanks (when applicable to BWON)	The cover and all openings (e.g., bungs, hatchs, and sampling ports) must be monitored initially and annually for NDE.	Completed	61.345(a)(1)(i)	Containers			×
, , as tains (mich applicable to bittott)	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed	61.345(b)	Containers		х	

	T=				_	_
Slop Oil Drums	The cover and all openings (e.g., bungs, hatchs, and sampling ports) must be monitored initially and annually for NDE.	Completed Monthly	61.345(a)(1)(i)	Containers		)
5.50 5.4.1.0	Each cover and all openings shall be visually inspected initially and quarterly to ensure that they are closed and gasketed properly.	Completed Monthly	61.345(b)	Containers	x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			
All piping to Lab Slop Oil Tank	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)			30000
Lab Slop Tank	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks	x	
Piping at API Separator used for Vacuum Truck Operations	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System		1
ripling at API deparation asset for Vaccium Truck Operations	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	individual Diairi System	х	
Piping from Slop Tanks 23/508 to Crude Unit	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System		1
	Each cover seal, access hatch, and all other openings shall be visually inspected initially		61.346(a)(2)		Х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)			
Piping from Complex 1 Flare Knockout Drum to the Crude Flare.	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System	х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)		$\Box$	
Crude Flare Itself	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			
Piping from the Propane Caustic Scrubber 9V22 to Alky Spent Caustic Holding Tank 9V31	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
Piping from the Alky Spent Caustic Holding Tank 9V31 used for Vacuum/Tank Trucks Operations	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
Unifiner Flare Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks		,
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for		61.343(c)	3	Х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)			1
ping from the Unifiner Flare Knockout Drum to the Unifiner Flare	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System	х	2
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)			1
Unifiner Flare Itself	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices	х	

GOHT Flare Knockout Drum	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			×
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for		61.343(c)			Х	Г
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)		8 8		
Piping from the GOHT Flare Knockout Drum to the Unifiner Flare	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		х	
Alky Flare Knockout Drums	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.	Completed	61.343(a)(1)(i)(A)	Tanks			
	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and	Completed	61.343(c)	Tariko		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				1
Piping from the Alky Flare Knockout Drums to the Alky Flare	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		х	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				
Alky Flare Itself	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				
Piping from Caustic Wash Drum (9V10) to Spent Caustic Pot (9T29)	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	8	61.346(a)(1)(i)(A)				20.00
Piping from SWS Feed Surge Drum to Slop Tanks 23/508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				,
Vacuum Truck Operations at Spent Caustic Tank 21T47	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				,
Piping from the CP Primary Flare Knockout Drum 25V1 to the Secondary Knockout Drum 25V2	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				>
Piping from Disulfide Separator (21V33 or #3 Merox) to Spent Caustic Tank 21T47	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				;
Piping from the Caustic Scrubber (12V5) to Slop Tanks 23/508	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Piping from the P.P Caustic Wash Tower (13V1A/B) to Spent Caustic Tank (21T47)	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)				x
Spent Caustic Tank 21T47	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Piping from the Debutanizer Ovhd Receiver 14V7/Water KO Pot to Aromatic Sump	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				X
Piping from the Fuel Gas Coalescers to Aromatic Sump	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Piping from Low/High Pressure Slop Bullets to LPG Knockout Pot 22-1V5	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) must be monitored initially and annually for NDE.		61.343(a)(1)(i)(A)		\$ - y	0	х
LPG Knockout Drum	Each fixed-roof, seal, access door, and all other openings shall be visually inspected for indications of cracks, gaps, or other problems that could result in benzene emissions, and that access doors and all other openings are closed and gasketed properly.	Completed	61.343(c)	Tanks		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Piping from LPG Knockout Pot to Unifiner Knockout Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	
Nacional Program (NACIA) (NACIA AND RESERVE AND RESERV	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				Х
Piping from the Terminal NESHAP Sump to VRU or Combustor	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Closed Vent System		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				Х
VRU and Combustor	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)	7			Х
Fugitive Emissions Eliminator	Each control device shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
RVP Analyzer	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices		x	

	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)		17/0		X
New Vacuum Truck Hookup at API Skim Pit	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices	1	x	
	Must be monitored initially and annually for NDE.		61.349(a)(1)(i)				X
Piping from Spent Caustic Pot (9T29) to Vacuum Truck Hookup	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.349(f)	Control Devices	14	x	
Piping from RVP Analyzer Sample to Fugitive Emissions	Must be monitored initially and annually for NDE.	AMERICA AND AND AND AND AND AND AND AND AND AN	61.349(a)(1)(i)	William Street Company Company Company			Х
Eliminator	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for	Completed	61.349(f)	Closed Vent System	Westers	х	
Piping from the MVGO Filter Changeouts to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System	16		х
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	individual Drain System		х	
Piping from the HVGO Filter Changeouts to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			х
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	individual Dialii System		х	
Piping from the LVGO Filter Changeouts to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			х
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				x
Piping from the AGO Filter Changeouts to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				x
Compressor Lube Oil Filter Changeouts (7C2) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				X
Compressor Lube Oil Filter Changeouts (8V31A/B) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Compressor Lube Oil Filter Changeouts (8V30A/B) to Unit	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			х
Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	individual Drain System	&	x	
Lube Oil Filter Changeouts (9V45A/B) to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			X
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	individual Drain System		х	
3	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Hydraulic Oil Filter Changeouts to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		х	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			x
Slurry Stripper Bottoms Strainer Changeouts to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
Strainer Changeouts (12V47/48) to Unit Area Slop Drum	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	0	61.346(a)(1)(i)(A)		П	×
Strainer Changeouts (12V47/46) to Onit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
Lube Oil Filter Changeouts (11V46A/B) to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Proin System		x
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
#6 Gas Lube Oil Filter Changeouts (12V54/55) to Unit Area	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	•	61.346(a)(1)(i)(A)			х
Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
Lube Oil Filter Changeouts (12V45A/B) to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	•	61.346(a)(1)(i)(A)			х
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
Lean Amine Filter Changeouts (12V45) to Unit Area Slop	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	-	61.346(a)(1)(i)(A)			х
Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
1 1 1 1 1 1 1 1 -	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Lean Amine Surge Drum (12V9) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)		П	х
Frim Compressor Lube Oil Filter Changeouts (13V15) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)		П	х
Trim Compressor Lube Oil Filter Changeouts (13V9) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Lube Oil Filter Changeouts (14ME10A/B) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)			х
Lube Oil Filter Changeouts (14ME12A/B) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System	x	

	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
Compressor Cylinder Oil Filter Changeouts (14ME18A/B) to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
Compressor Lube Oil Filter Changeouts (14ME17A/B) to Unit	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.	Completed	61.346(a)(1)(i)(A)	Individual Drain System			х
Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result	Completed	61.346(a)(2)	Individual Drain System		х	
	The cover and all openings (e.g., access hatches, sampling ports) must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				х
NHT Naphtha Feed Filter Changeouts to Unit Area Slop Drum	Each cover seal, access hatch, and all other openings shall be visually inspected initially and quarterly thereafter to ensure that no cracks, gaps, or other problems that could result in benzene emissions occur and access hatches and other openings are closed and gasketed properly.	Completed	61.346(a)(2)	Individual Drain System		x	
	Must be monitored initially and annually for NDE.		61.346(a)(1)(i)(A)				Х
Piping from Alky Spent caustic tank 9V10, 9V31, and 9V40 through refiner flare line to the flare itself	Each closed vent system shall be visually inspected initially and quarterly. Inspection shall include inspection of ductwork, piping, connections to covers and control device for evidence of visible defects.	Completed	61.346(a)(2)	Individual Drain System		x	
API Separator Floating Roof Inspections	5 year primary seal, Annual secondary seal.	Completed	61.352(a)(1)	Alternative Standards for Oil-Water separators	2		

#### Notes:

- 1. Visual inspections carried out during February 2012
- 2. Secondary Seal was inspected during March 2012

\*Method 21 readings for valves are completed quarterly.

## Table 8 Exceedance Summary for Various Control Equipment or Treatment Processes First Quarter 2012 Michigan Refining Division

Equipment	Reporting Requirement	No. of Reportable Exceedances this Quarter	Regulation	Equipment Classification
Desalter Water Flash Column	Each period of operation during which the concentration of benzene is > or = to 10 ppm based upon monthly sampling of Desalter Water Flash Column effluent.	0	40 CFR 61.348(a)(1)(i) & 357(d)(7)(i)	Treatment Processes
Carbon Canisters	Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control	0	40 CFR 61.357(d)(7)(iv)(l)	Closed Vent System of Control Device
Carbon Carristers	device is not replaced at the predetermined interval specified.	0	40 CFR 60.692- 5(e)(5)	Closed Vent System of Control Device
Water Draw covers	All water draw covers associated with NESHAP program should be tightly sealed. This includes tanks in the Crude tank farm (6, 36, 39, 40, 41, 45, 46, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, 120, 125, 126, 127, 128, 133, 134, 112, 113, 114, 115, 129, 130, 176, 108, 109, 110, 116)	5	61.349(f)	Closed Vent System
Inspections <sup>1</sup>	Summarizes all inspections required by 61.342 through 61.354 during which detectable emissions are measured or a problem (such as a broken seal, etc.) that could result in benzene emissions, including information about the repairs or corrective action taken.	84	61.357(d)(8)	See Table 7
CP Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Unifiner Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Alkylation Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Crude Flare	Each period in which the pilot flame of a flare is absent.	0	40 CFR 61.357(d)(7)(iv)(F)	Closed Vent System or Control Device
Vapor Recovery Unit	Each 3-hour period of operation during which the average temperature of the gas stream in the combustion zone of a thermal vapor incinerator, as measured by the temperature monitoring device is more than 28 °C (50°F) below the design combustion zone temperature.	0	40 CFR 61.357(d)(7)(iv)(A)	Closed Vent System or Control Device
Combustor	Each 3-hour period of operation during which the average temperature of the gas stream in the combustion zone of a boiler or process heater having a design heat input capacity less than 44 MW, as measured by the temperature monitoring device, is more than 28°C (50°F) below the design combustion zone temperature.	0	40 CFR 61.357(d)(7)(iv)(C)	Closed Vent System or Control Device
Fugitive Emissions Eliminator	Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the predetermined interval specified.	0	40 CFR 61.357(d)(7)(iv)(l)	Closed Vent System or Control Device

Note: 1. Inspections include valves and flanges that had NDE reading above 500 ppm. If defiencies are noted, an attached summary sheet will be included.



#### MARATHON - DETROIT 1300 SOUTH FORT STREET DETROIT, MI 48217

04/03/2012

#### **LEAKING EQUIPMENT LOG**

Program: NESHAPS-FF

Process U	Init: 01										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
1368	VALVE/ WTR DRW	6.00	NW SIDE OF TK47								
				02/01/2012	M21	836 PPM	VLV-CAP	02/01/2012	VLV-TCA P	2169.00	
				02/01/2012	M21	2169 PPM		02/07/2012	VLV-CL	60.00	
				02/07/2012	M21	60 PPM					02/07/2012

	Process Unit 01 Sun	nmary	
	Component Count	Leak Count	
Total in Group	1	1	
Total Valves	1	1	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NESHAPS-FF

Process U	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2365	VALVE/ BALL	4.00	5FT NW OF 22P51@UG-5-008	DOT LINE							
				03/21/2012	M21	876 PPM	VLV-PKG	03/21/2012	VLV-CL	742.00	
				03/21/2012	M21	742 PPM		03/22/2012	VLV-CP	19.00	
				03/22/2012	M21	19 PPM					03/22/201
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-00	9 DOT LINE							
				01/19/2012	M21	13600 PPM	VLV-BON	01/19/2012	VLV-CAP	11500.00	
				01/19/2012	M21	11500 PPM		02/01/2012	VLV-CAP	0.00	
				02/01/2012	VIS	Р					
				02/01/2012	M21	52 PPM			1-2		02/01/201
2366	VALVE/ BALL	3.00	15FT SW OF TK98 @UG-5-00	9 DOT LINE							
				03/21/2012	M21	11300 PPM	VLV-BON	03/21/2012	VLV-CL	14900.00	
				03/21/2012	M21	14900 PPM		03/27/2012	VLV-INJ	185.00	
				03/27/2012	M21	185 PPM					03/27/201
2367	VALVE/ GATE	4.00	12FT SW OF TK98 @UG-5-00	5 DOT LINE							
				03/21/2012	M21	702 PPM	VLV-PKG	03/21/2012	VLV-CP	675.00	
				03/21/2012	M21	675 PPM		03/22/2012	VLV-TP	109.00	
				03/22/2012	M21	109 PPM					03/22/201
2371.01	CONNECTOR/ FLANGE	3.00	11FT NW OF 22P51@UG-5-01	7 DOT LINE							
				03/21/2012	M21	5171 PPM	CON-FLG	03/21/2012	CON-CLA	3560.00	
			i i	03/21/2012	M21	3560 PPM		03/22/2012	CON-CLA	68.00	
				03/22/2012	M21	68 PPM					03/22/2012
2373	VALVE/ GATE	1.00	12FT NW OF 22P51@UG-5-01	8 DOT LINE							
				03/21/2012	M21	979 PPM	VLV-PKG	03/21/2012	VLV-CL	870.00	
				03/21/2012	M21	870 PPM		03/22/2012	VLV-TP	57.00	
				03/22/2012	M21	57 PPM					03/22/2012
2379	VALVE/ BALL	3.00	13FT NW OF 22P51. @ UG-5-0	03/21/2012	M21	1696 PPM	VLV-BON	03/21/2012	VLV-CL	1618.00	Simble Communication
				03/21/2012	M21	1618 PPM		03/22/2012	VLV-CL	28.00	

Program: NESHAPS-FF

					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location N	Nonitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
				03/22/2012	1424	28 PPM					03/22/2012
22024	VALVE/ CHECK	0.00	SET NIM OF SORE4 NE OF CACH	03/22/2012	M21	20 FFIVI					03/22/2012
2383A	VALVE/ CHECK	6.00	3FT NW OF 22P51.NE OF CASI PRESSURE PANEL	NG							
			<u>-</u>	03/21/2012	M21	513 PPM	VLV-FLG	03/21/2012	VLV-CL	643.00	
				03/21/2012	M21	643 PPM		03/22/2012	VLV-TFL G	78.00	
				03/22/2012	M21	78 PPM					03/22/2012
2409.04	CONNECTOR/ 45	0.75	S OF 22P51@ BTM ON FLARE	LINE							
				03/29/2012	M21	1053 PPM	CON	03/29/2012	CON-CLA	1292.00	
			-	03/29/2012	M21	1292 PPM				*	
2423.06	CONNECTOR/ 90	1.00	E OF 22P50.W OF STAIRS.								
				03/29/2012	M21	22300 PPM	CON-90	03/29/2012	CON-CLA	24800.00	
			_	03/29/2012	M21	24800 PPM					
2423.07	CONNECTOR/ SCREWED	1.00	E OF 22P50.W OF STAIRS.							·	
				03/29/2012	M21	19100 PPM	CON	03/29/2012	CON-CLA	30400.00	
			<del>,</del>	03/29/2012	M21	30400 PPM					
2423.08	CONNECTOR/ UNION	1.00	E OF 22P50.W OF STAIRS.	¥å							
				03/29/2012	M21	4464 PPM	CON-UNIO N	03/29/2012	CON-CLA	4010.00	
			-	03/29/2012	M21	4010 PPM					
2423.12	CONNECTOR/ SCREWED	1.00	E OF 22P50.W OF STAIRS.								
				03/29/2012	M21	19000 PPM	CON	03/29/2012	CON-CLA	18700.00	
			570.00	03/29/2012	M21	18700 PPM					
2424.06	CONNECTOR/ 90	1.00	E OF 22P50 @ PUMPSEAL								

Program: NESHAPS-FF

Process U	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2424.06	CONNECTOR/ 90	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	984 PPM	CON-90	03/29/2012	CON-CLA	1001.00	
				03/29/2012	M21	1001 PPM					
2424.07	CONNECTOR/ SCREWED	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	640 PPM	CON	03/29/2012	CON-CLA	765.00	
				03/29/2012	M21	765 PPM					
2424.08	CONNECTOR/ UNION	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	657 PPM	CON-UNIO N	03/29/2012	CON-CLA	660.00	
				03/29/2012	M21	660 PPM					
2424.09	CONNECTOR/ SCREWED	1.00	E OF 22P50 @ PUMPSEAL	-							
				03/29/2012	M21	542 PPM	CON	03/29/2012	CON-CLA	1291.00	
				03/29/2012	M21	1291 PPM					
2424.10	CONNECTOR/ TEE-FLG	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012		561 PPM	CON-TEE	03/29/2012	CON-CLA	544.00	
				03/29/2012	M21	544 PPM					
2424.11	CONNECTOR/ TEE-FLG	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	5049 PPM	CON-TEE	03/29/2012	CON-CLA	19600.00	
	*****			03/29/2012	M21	19600 PPM					
2424.12	CONNECTOR/ TEE-FLG	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	10700 PPM	CON-TEE	03/29/2012	CON-CLA	7348.00	-
	A			03/29/2012	M21	7348 PPM					
2424.13	CONNECTOR/ 90	1.00	E OF 22P50 @ PUMPSEAL								

Program: NESHAPS-FF

<b>Process</b>	Unit:	02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2424.13	CONNECTOR/ 90	1.00	E OF 22P50 @ PUMPSEAL								
				03/29/2012	M21	4504 PPM	CON-90	03/29/2012	CON-CLA	3497.00	
				03/29/2012	M21	3497 PPM					
2425	VALVE/ BALL	1.00	E OF 22P50.W OF STAIRS			4005 BB14	VII V DV 0			4000.00	
				03/29/2012		1285 PPM	VLV-PKG	03/29/2012	VLV-CL	1392.00	
2400	V/41.VE/54/1		W. O. F. O. P. F. W. O. F. O. T. W. D. D. W. D. D. W. D. D. W. D. D. D. W. D. D. D. D. W. D. D. D. W. D. D. D. D. W. D.	03/29/2012	M21	1392 PPM					
2426	VALVE/ BALL	0.75	N OF 22P50.W OF STAIRS	03/29/2012	M21	1098 PPM	VLV-PKG	03/29/2012	VLV-CL	1602.00	
				03/29/2012		1602 PPM					
2428.11	CONNECTOR/ TEE-SCR	1.00	N OF 22P50.W OF STAIRS.								
				03/29/2012	M21	2309 PPM	CON-TEE	03/29/2012	CON-CLA	1632.00	
			8	03/29/2012	M21	1632 PPM					
2429.01	CONNECTOR/ SCREWED	0.75	N OF 22P50.W OF STAIRS.								
				03/29/2012	M21	2861 PPM	CON-TEE	03/29/2012	CON-CLA	2707.00	
			8	03/29/2012	M21	2707 PPM					
2452	VALVE/ TWIN SEAL	3.00	9FT S OF TK99. DOT LINE								
				03/27/2012	M21	1516 PPM	VLV-PKG	03/27/2012	VLV-CL	680.00	
				03/27/2012	M21	680 PPM					
2459.01	CONNECTOR/ 90	1.00	12FT SE OF TK99. DOT LINE								
				03/27/2012	M21	1583 PPM	CON-90	03/27/2012	CON-CLA	252.00	
				03/27/2012	M21	252 PPM					03/27/2012
2460.01	CONNECTOR/ SCREWED	1.00	12FT SE OF TK99. DOT LINE								
				03/27/2012	M21	806 PPM	CON	03/27/2012	CON-CLA	891.00	
				03/27/2012	M21	891 PPM					

Program: NESHAPS-FF

P	rocess	Ur	٦i	t:	02	

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
2461.02	CONNECTOR/ SCREWED	0.75	12FT SE OF TK99. DOT LINI								
				03/27/2012	M21	695 PPM	CON	03/27/2012	CON-CLA	685.00	
				03/27/2012	M21	685 PPM					
2497.01	CONNECTOR/ FLANGE	8.00	15FT S OF TK191.DOT LINE								
				03/27/2012	M21	999 PPM	CON-FLG	03/27/2012	CON-CLA	1712.00	
				03/27/2012	M21	1712 PPM					
2502.01	CONNECTOR/ UNION	0.75	20FT S OF TK191.DOT LINE								
				03/27/2012	M21	2011 PPM	CON-UNIO N	03/27/2012	CON-CLA	964.00	
				03/27/2012	M21	964 PPM					
2508.02	CONNECTOR/ TEE-SCR	0.50	30FT SE OF TK191.DOT LIN	E CORNER							
				03/27/2012	M21	2279 PPM	CON-TUB	03/27/2012	CON-CLA	2660.00	
				03/27/2012	M21	2660 PPM					
2508.03	CONNECTOR/ TEE-SCR	0.50	30FT SE OF TK191.DOT LIN	E CORNER		3					
				03/27/2012	M21	3881 PPM	CON-TUB	03/27/2012	CON-CLA	4025.00	
		=11/45/25/21		03/27/2012	M21	4025 PPM					
2528	VALVE/ BALL	0.75	16FT SE OF TK191.DOT LIN	Ε							
				03/27/2012	M21	1949 PPM	VLV-PKG	03/27/2012	VLV-CL	1403.00	
				03/27/2012	M21	1403 PPM					
2638	VALVE/ ORBIT	2.00	22P42 W OF TK 98.4FT NW 0	F PUMP.					500000000000000000000000000000000000000		
				03/01/2012	M21	4060 PPM	VLV-PKG	03/01/2012	VLV-CL	3404.00	
				03/01/2012	M21	3404 PPM		03/02/2012	TBL	6.00	
				03/02/2012	M21	6 PPM		- 70-380-000-000-000-000-000-000-000-000-00			03/02/2012
2641.01	CONNECTOR/ FLANGE	4.00	22P81 W OF TK 98.S FLANG								
				03/02/2012	M21	542 PPM	CON-FLG	03/02/2012	CON-CLA	722.00	

Program: NESHAPS-FF

Process L	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/02/2012	M21	722 PPM		03/02/2012	CON-CLA	65.00	
				03/02/2012		65 PPM		GOFOZFZGTZ			03/02/2012
2645.01	CONNECTOR/ FLANGE	3.00	22P81 W OF TK 98.1FT N OI FLANGE.								
				03/02/2012	M21	4375 PPM	CON-FLG	03/02/2012	BOX	3243.00	
				03/02/2012	M21	3243 PPM		03/02/2012	CON-TF	140.00	
				03/02/2012	M21	140 PPM					03/02/2012
2656.01	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK99 IN MID FLANGE.	DLE .TOP							
				03/01/2012	M21	1511 PPM	CON-FLG	03/01/2012	CON-CLA	1191.00	
				03/01/2012	M21	1191 PPM		03/02/2012	CON-CLA	7.00	
				03/02/2012	M21	7 PPM					03/02/2012
2657.03	CONNECTOR/ FLANGE	6.00	UNDERNEATH TK99 IN MID FLANGE.	DLE.N BTM							
				03/01/2012	M21	792 PPM	CON-FLG	03/02/2012	CON-CLA	17.00	
				03/02/2012	M21	17 PPM					03/02/2012
2659	VALVE/ ORBIT	4.00	UNDERNEATH TK190 NW S	IDE.btw 99/190							
				03/01/2012	M21	1372 PPM	VLV-PKG	03/01/2012	VLV-CL	2054.00	
				03/01/2012	M21	2054 PPM		03/02/2012	TBL	27.00	
				03/02/2012	M21	27 PPM					03/02/2012
2666.01	CONNECTOR/ FLANGE	3.00	UNDERNEATH TK191 IN MIL FLANGE.	DDLE. TOP							
				03/01/2012	M21	1766 PPM	CON-FLG	03/01/2012	CON-CLA	874.00	
				03/01/2012	M21	874 PPM		03/02/2012	CON-CLA	150.00	
				03/02/2012	M21	150 PPM					03/02/2012
2878.02	CONNECTOR/ SCREWED	1.00	TOP OF TK96								
				03/02/2012	M21	2205 PPM	CON-SCR	03/02/2012	CON-CLA	1003.00	
				03/02/2012	M21	1003 PPM		03/02/2012	CON-TIG	24.00	

Program: NESHAPS-FF

Process U	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/02/2012	M21	24 PPM					03/02/2012
3023.03	CONNECTOR/ PLUG	0.50	3FT W OF TK 89 3FT N OF P	UMP 22-P-36							
				03/06/2012	M21	542 PPM	CON-PLG	03/06/2012	CON-CLA	529.00	
				03/06/2012	M21	529 PPM		03/08/2012	CON-TPL G	20.00	
				03/08/2012	M21	20 PPM					03/08/2012
3548.01	CONNECTOR/ PLUG	1.00	BLW BTM SSD OF BULLET 8 BULLET 90	9 5FT W OF							
				03/13/2012	M21	1170 PPM	CON	03/13/2012	CON-CLA	1735.00	
				03/13/2012	M21	1735 PPM					
3694.04	CONNECTOR/ 90	0.75	MDL OF RAIL LOADING RAC PLTFM	KS ON 1ST							
				03/07/2012	VIS	F	CON-90	03/07/2012	CON-CLA	8546.00	
				03/07/2012	M21	8546 PPM					
				03/07/2012	M21	6188 PPM		03/08/2012	CON-TC ON	110.00	
				03/08/2012	M21	110 PPM					
3700.02	CONNECTOR	2.00	MDL OF RAIL LOADING RAC PLTFM	KS ON 1ST							
				03/07/2012	M21	23100 PPM	CON-SCR	03/07/2012	CON-CLA	22000.00	
				03/07/2012	M21	22000 PPM		03/08/2012	CON-CLA	5.00	
V				03/08/2012	M21	5 PPM					03/08/2012
3700.03	CONNECTOR	2.00	MDL OF RAIL LOADING RAC PLTFM	KS ON 1ST							
				03/07/2012	M21	10800 PPM	CON-SCR	03/07/2012	CON-CLA	9854.00	
				03/07/2012	M21	9854 PPM		03/08/2012	CON-CLA	6.00	
·				03/08/2012	M21	6 PPM					03/08/2012
3721.07	CONNECTOR	0.75	MDL OF RAIL LOADING RAC PLTFM	KS ON 1ST							

Program: NESHAPS-FF

Process L	Jnit: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3721.07	CONNECTOR	0.75	MDL OF RAIL LOADING RACK	S ON 1ST				7			
			PLTFM	03/07/2012	M21	9201 PPM	CON-SCR	03/07/2012	CON-CLA	9560.00	
				03/07/2012	M21	9560 PPM	umono solle dilico.	03/08/2012	CON-TIG	2.00	
			•	03/08/2012	M21	2 PPM					03/08/2012
3730.01	CONNECTOR/ SCREWED	0.75	MDL OF RAIL LOADING RACK	S ON 1ST							
				03/07/2012	VIS	F	CON	03/07/2012	CON-CLA	791.00	
				03/07/2012	M21	791 PPM					
				03/07/2012	M21	3072 PPM		03/08/2012	CON-CLA	9.00	
			•	03/08/2012	M21	9 PPM					
3732.02	CONNECTOR	0.75	MIDDLE OF RAILCAR LOADIN PLTFRM .	NG RACKS 1ST							
				03/07/2012	M21	1204 PPM	CON-90	03/07/2012	CON-CLA	2237.00	
				03/07/2012	M21	2237 PPM		03/08/2012	CON-TC ON	232.00	
			-	03/08/2012	M21	232 PPM					03/08/2012
3762	VALVE/ ORIFIC	0.75	IN PIPERACK 20FT NW OF 22	V5.		•					
				03/07/2012	M21	6489 PPM	VLV-BON	03/07/2012	VLV-CL	11200.00	
				03/07/2012	M21	11200 PPM					
3797	VALVE/ PSV	0.75	IN PIPERACK 17FT SW OF 22 OUTSIDE SLOP LINE.	P88 ON HP							
				03/13/2012	M21	543 PPM	VLV-CONN EC	03/13/2012	VLV-CL	556.00	
				03/13/2012	M21	556 PPM					
3797.01	CONNECTOR/ SCREWED	0.75	IN PIPERACK 17FT SW OF 22 OUTSIDE SLOP LINE.	P88 ON HP							
				03/13/2012	M21	548 PPM	CON	03/13/2012	CON-CLA	634.00	
			•	03/13/2012	M21	634 PPM					
3958.01	CONNECTOR/ SCREWED	0.50	ON PUMP SEAL OF 22P87 12	W OF TK80							

Program: NESHAPS-FF

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3958.01	CONNECTOR/ SCREWED	0.50	ON PUMP SEAL OF 22P87 13	2' W OF TK80							
				03/15/2012	M21	21400 PPM	CON	03/15/2012	CON-CLA	14500.00	
				03/15/2012	M21	14500 PPM		03/16/2012	CON-CLA	10000.00	
				03/16/2012	M21	10000 PPM		03/29/2012	CON-RE P	0.00	
				03/29/2012	VIS	Р					
				03/29/2012	M21	3 PPM					03/29/2012
3958.02	CONNECTOR/ TUBCON	0.50	ON PUMP SEAL OF 22P87 12	2' W OF TK80							
				03/15/2012	M21	4167 PPM	CON-TUB	03/15/2012	CON-CLA	5109.00	
				03/15/2012	M21	5109 PPM		03/16/2012	CON-TC ON	3100.00	
				03/16/2012	M21	3100 PPM		03/29/2012	CON-RE P	0.00	
				03/29/2012	VIS	Р					
				03/29/2012	M21	12 PPM					03/29/2012
3958.03	CONNECTOR/ SCREWED	0.75	ON PUMP SEAL OF 22P87 12	2' W OF TK80							
				03/15/2012	M21	908 PPM	CON	03/15/2012	CON-CLA		
				03/15/2012	M21	1104 PPM		03/16/2012	CON-CLA	800.00	
ý				03/16/2012	M21	800 PPM					
3962.01	CONNECTOR/ TUBCON	0.50	ON PUMP 22P87 FROM SEA OF TK80	L @ VLV 10' W							
				03/15/2012	M21	506 PPM	CON-TUB	03/15/2012	CON-CLA	562.00	
				03/15/2012	M21	562 PPM		03/16/2012	CON-TC ON	14.00	
				03/16/2012	M21	14 PPM					03/16/2012
3962.02	CONNECTOR/ TUBCON	0.50	ON PUMP 22P87 FROM SEA OF TK80	L @ VLV 10' W							
				03/15/2012	M21	232400	CON-TUB	03/15/2012	CON-CLA	158200.00	

Program: NESHAPS-FF

Process U	Init: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3962.02	CONNECTOR/	0.50	ON PUMP 22P87 FROM SEA	L @ VLV 10' W							
	TUBCON		OF TK80								
						PPM					
				03/15/2012	M21	158200 PPM		03/16/2012	CON-TC ON	16.00	
				03/16/2012	M21	16 PPM				***************************************	03/16/2012
3962.03	CONNECTOR/	0.50	ON PUMP 22P87 FROM SEA	L @ TEE 10' W		·					
	TUBCON		OF TK80								
				03/15/2012		2692 PPM	CON-TUB	03/15/2012	CON-CLA	5467.00	
				03/15/2012	M21	5467 PPM		03/16/2012	CON-TC ON	145.00	
				03/16/2012	M21	145 PPM			ON		03/16/2012
3962.05	CONNECTOR/	0.50	ON PUMP 22P87 FROM SEA	-	IVIZI	145 FFWI					03/10/2012
3962.05	TUBCON	0.50	OF TK80	L@TEETO W							
			1000 1000 1000 1000 1000 1000 1000 100	03/15/2012	M21	2114 PPM	CON-TUB	03/15/2012	CON-CLA	2335.00	
				03/15/2012	M21	2335 PPM		03/16/2012	CON-TC	67.00	
				9					ON		
				03/16/2012	M21	67 PPM					03/16/2012
3965.01	CONNECTOR/	3.00	ON PUMP 22P87 DISCHARG	E LINE 12' W OF							
	FLANGE		TK80			007 DD14	0011510		0011014	204.00	
				03/15/2012	E ADDRESS	637 PPM	CON-FLG	03/15/2012	CON-CLA		
				03/15/2012	M21	821 PPM		03/16/2012	CON-TFL G	116.00	
				03/16/2012	M21	116 PPM			- 35000		03/16/2012
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE	12' W OF TK80					2		
				01/19/2012	M21	19700 PPM	VLV-PKG	01/19/2012	VLV-CP	48700.00	
				01/19/2012	M21	48700 PPM		01/20/2012	VLV-TP	278.00	
				01/20/2012	M21	278 PPM					01/20/2012
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE	12' W OF TK80							
				02/23/2012	VIS	F	VLV-PKG	02/23/2012	VLV-CL	28500.00	
				02/23/2012	M21	28500 PPM					

Program: NESHAPS-FF

Process U	Jnit: 02										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				02/23/2012	M21	76000 PPM		02/24/2012	VLV-TP	6.00	
				02/24/2012		6 PPM		02.2 11.2012			
				02/24/2012		Р			***************************************		02/24/201
3977	VALVE/ ORBIT	4.00	PUMP 22P86 SUCTION LINE								New York
				03/15/2012	M21	57700 PPM	VLV-PKG	03/15/2012	VLV-CL	119600.00	
				03/15/2012	M21	119600 PPM		03/16/2012	VLV-INJ	23.00	
				03/16/2012	M21	23 PPM				·	03/16/201
3982.01	CONNECTOR/ UNION	0.50	PUMP 22P86 12' W OF TK80	-	Street Street						
				03/14/2012	M21	516 PPM	CON-UNIO N	03/14/2012	CON-CLA	102.00	
				03/14/2012	M21	102 PPM					03/14/2012
3987.05	CONNECTOR/ TUBCON	0.50	PUMP 22P86 FROM SEAL @ TK80	TEE 12' W OF		**					
				03/14/2012	M21	1255 PPM	CON	03/14/2012	CON-CLA	1151.00	
				03/14/2012	M21	1151 PPM		03/15/2012	CON-TC ON	6.00	
				03/15/2012	M21	6 PPM					03/15/2012
4052	VALVE/ ORBIT	6.00	S SIDE TK82 TOP BLK								
				03/14/2012	M21	716 PPM	VLV-PKG	03/14/2012	VLV-CL	582.00	
				03/14/2012	M21	582 PPM		03/15/2012	VLV-TP	178.00	
				03/15/2012	M21	178 PPM					03/15/2012
4061	VALVE/ ORBIT	6.00	S SIDE TK83 TOP BLK								
				02/23/2012		F	VLV-PKG	02/23/2012	VLV-CL	11000.00	
				02/23/2012	M21	11000 PPM		50000000000000000000000000000000000000		40.00 (COVID-100)	
				02/23/2012	M21	14200 PPM		02/24/2012	VLV-TP	126.00	
				02/24/2012	M21	126 PPM					70 *200 millethiom * 140
				02/24/2012	VIS	Р					02/24/2012

Program: NESHAPS-FF

Pro	ocess	Unit	:	02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
4061	VALVE/ ORBIT	6.00	S SIDE TK83 TOP BLK								
				03/14/2012	M21	2550 PPM	VLV-PKG	03/14/2012	VLV-CL	5950.00	
			,	03/14/2012	M21	5950 PPM		03/15/2012	VLV-TP	1.00	
				03/15/2012	M21	1 PPM		-1.00			03/15/2012
4123.01	CONNECTOR/ FLANGE	3.00	N SIDE TK83 TOP CHAIN VLV	V							
				03/15/2012	M21	13500 PPM	CON-FLG	03/15/2012	CON-CLA	2290.00	
			,	03/15/2012	M21	2290 PPM		03/23/2012	CON-TF	205.00	
			,	03/23/2012	M21	205 PPM					03/23/2012
4221	VALVE/ ORBIT	6.00	TK 83 S SIDE BTM BLK UND	ERNEATH				10			
				01/19/2012	M21	4723 PPM	VLV-PKG	01/19/2012	VLV-CP	1340.00	
				01/19/2012	M21	1340 PPM		01/20/2012	TBL	38.00	
				01/20/2012	M21	38 PPM			200000 00000		01/20/2012
4221	VALVE/ ORBIT	6.00	TK 83 S SIDE BTM BLK UNDE	ERNEATH							
				02/23/2012	VIS	F	VLV-PKG	02/23/2012	VLV-CL	753.00	
				02/23/2012	M21	753 PPM					
			· ·	02/23/2012	M21	936 PPM		02/24/2012	VLV-TP	4.00	
				02/24/2012	M21	4 PPM				***	
				02/24/2012	VIS	Р					02/24/2012
4249	VALVE/ ORBIT	4.00	TK 82 S SIDE BTM BLK UNDE	RNEATH							
				03/15/2012	M21	633 PPM	VLV-PKG	03/15/2012	VLV-CL	640.00	
	30			03/15/2012	M21	640 PPM		03/16/2012	TBL	23.00	
				03/16/2012	M21	23 PPM					03/16/2012

Program: NESHAPS-FF

Reporting Period 01/01/2012 - 03/31/2012

Proces	ss U	nit	: 0	2

Test Part Repair Repair Remonitor Date Tag Number Part / Type Location Method Size **Monitor Date** PPM Reading Leaking Date Reading Method Completed

	Process Unit 02 Sur	nmary
	Component Count	Leak Count
Total in Group	68	73
Total Valves	19	24
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	49	49
Total Agitators	0	0
Total Other Equipment	0	0

Program: NESHAPS-FF

Process	Unit	: 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
16695	VALVE/ GATE	0.75	E OF CRUDE HTR LVL 1 @ 5 OF RECVR TOP SOUTH END			Allero Districtorio del Constitución de la constitu		and the second			
				03/09/2012	M21	684 PPM	VLV-PKG	03/09/2012	VLV-CL	1064.00	
				03/09/2012	M21	1064 PPM		03/12/2012	VLV-CP	2.00	
				03/12/2012	M21	2 PPM					03/12/2012

	Process Unit 05 Sur	nmary
	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NESHAPS-FF

Process L	Jnit: 09										
Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
T4353.11	CONNECTOR/ SCREWED	2.00	(TEMPORARY) E SIDE OF 97 BY STAIRS .	Γ15. S OF 9P67							
				01/25/2012	VIS	F	CON-CON NEC	01/25/2012	CON-TC ON	1983.00	
				01/25/2012	M21	1983 PPM		01/25/2012	CON-TC ON	1195.00	
				01/25/2012	M21	1195 PPM		02/06/2012	CON-RE P	0.00	
				02/06/2012	VIS	Р					
				02/06/2012	M21	4 PPM					02/06/2012

	Process Unit 09 Sur	nmary
	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	1	1
Total Agitators	0	0
Total Other Equipment	0	0

Program: NESHAPS-FF

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
15968	VALVE/ ORBIT	2.00	LOW PRESS RERUN TO VAP HEADER-12-12-12	POR							
				02/02/2012	VIS	F	VLV-PKG	02/02/2012	VLV-CL	2285.00	
				02/02/2012	M21	2285 PPM					-
				02/02/2012	M21	2511 PPM		02/08/2012	VLV-TP	5.00	
				02/08/2012	M21	5 PPM					
				02/08/2012	VIS	Р					02/08/2012

	Process Unit 12-21 Su	ımmary	
	Component Count	Leak Count	
Total in Group	1	1	
Total Valves	1	1	
Total Pumps	0	0	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

Program: NESHAPS-FF

<b>Process</b>	Unit:	29
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Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30085	VALVE/ GATE	8.00	TOP OF 29T48A								
				01/04/2012	2 M21	579 PPM	VLV-PKG	01/04/2012	VLV-TP	557.00	
				01/04/2012	2 M21	557 PPM		01/05/2012	VLV-TP	32.00	
				01/05/2012	2 M21	32 PPM					01/05/2012

	Process Unit 29 Sun	nmary
	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NESHAPS-FF

Process U	nit	:	34
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Tag Number	Part / Type	Size	Location N	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5037	VALVE/ WTR DRW	6.00	SOUTH SIDE TK116	330 330							
				01/11/2012	M21	3545 PPM	VLV-CAP	01/11/2012	VLV-CL	624.00	
			_	01/11/2012	M21	624 PPM		01/12/2012	VLV-CL	47.00	
			_	01/12/2012	M21	47 PPM					01/12/2012
5038	VALVE	6.00	EAST SIDE TK102	01/11/2012	M21	2427 PPM	VLV-CAP	01/11/2012	АТТВ	6640.00	
			_	01/11/2012		6640 PPM		01/12/2012	TBL	28.00	
-			_	01/12/2012	190000000	28 PPM		01/12/2012	VLV-TCA P		01/12/2012
5148	VALVE	12.00	EAST SIDE OF TK104	01/12/2012	M21	860 PPM	VLV-CAP	01/12/2012	VLV-TCA P	991.00	
			_	01/12/2012	M21	991 PPM		01/13/2012	VLV-TCA P	18.00	
				01/13/2012	M21	18 PPM					01/13/2012
5212	VALVE/ WTR DRW	8.00	NORTH SIDE OF TK108							·	
				01/13/2012	M21	1900 PPM	VLV-CAP	01/13/2012	VLV-CL	58.18	
				01/13/2012	M21	58.18 PPM					01/13/2012
5217	VALVE	6.00	SOUTH EAST SIDE OF TK108	01/13/2012	M21	701 PPM	VLV-CAP	01/13/2012	VI V-CI	173.00	
			_	01/13/2012	1237(030	173 PPM	VLV-OAI	01/13/2012	VEV-OL	175.00	01/13/2012
5244	VALVE/ WTR DRW	6.00	SOUTH WEST SIDE OF TK109	01/10/2012	WEI						
				01/12/2012	M21	6452 PPM	VLV-CAP	01/12/2012	ATSC	4218.00	
			_	01/12/2012	M21	4218 PPM		01/13/2012	VLV-CL	17.00	
				01/13/2012	M21	17 PPM					01/13/2012
5261	VALVE	6.00	EAST SIDE OF TK109 @ CATW	/ALK 01/12/2012	M21	905 PPM	VLV-CAP	01/12/2012	ATSC	835.00	
			_	01/12/2012		835 PPM		01/13/2012		7.00	

Program: NESHAPS-FF

					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
				01/13/2012	M21	7 PPM			34110-1341		01/13/2012
5365	VALVE	6.00	SOUTH OF TK113						urrenz r Soprinsco	2000-000-000-00	
				01/13/2012	M21	7325 PPM	VLV-CAP	01/13/2012	ATSC	8785.00	
			01/13/2012	M21	8785 PPM		01/16/2012	VLV-TCA P	14.00		
				01/16/2012	M21	14 PPM					01/16/2012
5829	VALVE	6.00	SOUTH WEST SIDE OF TK12	9							
				01/16/2012	M21	995 PPM	VLV-CAP	01/16/2012	ATTB	4.13	
				01/16/2012	M21	4.13 PPM					01/16/2012
5831	VALVE/ WTR DRW	6.00	NORTH EAST SIDE OF TK12	9							
				01/16/2012	M21	2359 PPM	VLV-CAP	01/16/2012	ATTB	3511.00	
				01/16/2012	M21	3511 PPM		01/17/2012	VLV-TCA P	7.00	
				01/17/2012	M21	7 PPM					01/17/2012
5881A	VALVE	6.00	NORTH SIDE OF TK126 NEAR	R CATWALK							
				01/16/2012	M21	11600 PPM	VLV-CAP	01/16/2012	ATTB	21400.00	
				01/16/2012	M21	21400 PPM		01/17/2012	VLV-TCA P	89.00	
				01/17/2012	M21	89 PPM					01/17/2012
				dia .							

Program: NESHAPS-FF

Reporting Period 01/01/2012 - 03/31/2012

<b>Process</b>	Unit		34
1 100033	OHIL	٠	VT

Part Test Repair Repair Remonitor Date Tag Number Part / Type **Monitor Date** Date Reading Completed Size Location Method PPM Reading Leaking Method

	Process Unit 34 Sur	nmary
	<b>Component Count</b>	Leak Count
Total in Group	11	11
Total Valves	11	11
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Program: NESHAPS-FF

					Test		Part	Repair	Repair	Remonitor	Date
Tag Number	Part / Type	Size	Location	Monitor Date	Method	PPM Reading	Leaking	Date	Method	Reading	Completed
30551	PUMP/ CENTRIF	0.00	PUMP AT AA-10 -2 TERM								
				03/27/2012	VIS	F	PMP-SEAL	03/27/2012	PMP-WS E	38200.00	
				03/27/2012	M21	38200 PPM					
				03/27/2012	M21	4216 PPM		03/28/2012	PMP-WS E	120.00	***************************************
				03/28/2012	M21	120 PPM					

	Process Unit TERM S	ummary	
	Component Count	Leak Count	
Total in Group	1	1	
Total Valves	0	0	
Total Pumps	1	1	
Total Compressors	0	0	
Total Relief Valves	0	0	
Total Connectors	0	0	
Total Agitators	0	0	
Total Other Equipment	0	0	

#### Table 9 Michigan Refining Division First Quarter End of Line Calculations

012		S1	S2	S3a	S3b	S7	S4	\$5	S6	
U12		Sand Filter Effluent	29T40/41	Centrifuge Solids	29T12	29T47	Vacuum Truck	Miscellaneous	Spent Caustic	Monthly Total (k
	Individual	0.01	373.33	0.25	1.00		STATE OF STREET	SHOW I SHOW		
	Sample	0.03 0.01	113.33	0.10	2.50	-				
	Results	0.15	260.00 206.67	27.33	2.50					
		0.06	286.67	0.04	2.50	3.93				
	(ppm) Average	0,00	200.07	0.31	1.00	12.00				
	Sample				1	1 1				
	Results			1			ERO SORRE			NAME OF TAXABLE PARTY.
	(ppm)	0.05	248.00	5.61	1.90	7.97	De en la company		0.72	
	Waste	0.03	240.00	5.01	1.90	1.91				
lanuary-12	Volume						2000		10.5	
100	(gallons/m					1 1				
	onth)	61,704,711	0	377,060	27,000	37,499			ALCOHOL:	
	Waste	01,101,111		377,000	27,000	31,433				
	Amount	3				1 1			Harley Land	
		233,916,951	0	1,429,400	73,593	142,155				
	(kg) Monthly	333   333   333		1,120,100	10,000	142,100				AND DESCRIPTION OF THE PARTY OF
	EOL					1 1				h.
	Benzene					1 1				9
	Quantity					1 1				
	(kg)*	12.65	0.00	8.02	0.14	1.13	23.54	4.12	0.28	49.88
	Individual	0.03	266.00	0.18	2.50	-	NAME OF TAXABLE PARTY.	WEST STREET, S	Married States	AND THE RESIDENCE OF THE PERSON NAMED IN
	Sample	0.05	263.33	0.80	1.00	2.30		201	COMPANIE VAL	
	Results	0.04	97.33	0.10	2.50	0.89			TO THE PARTY OF	
	(ppm)	0.04	380.00	0.03	2.50	2.10			STATE OF THE PARTY.	
	Average						MARKET STREET		2015	
	Sample	1								
	Results			1						
	(ppm)	0.04	208.89	0.36	2.00	1.60			10000	
	Waste				200000				20 5 5 5 7 7 7 7	
ebruary-12	Volume					1 1				
	(gallons/m	5600040000000		300000000	200				A BONG SAULTS	
	onth)	61,925,779	0	164,406	0	19,748				
	Waste								574	
	Amount	922734000000							A 10 Sec. 15	
	(kg) Monthly	234,754,998	0	623,248	0	74,863				Part of the second
	EOL									
	Benzene									No.
	Quantity									
		0.57			1222			12122	2012	122122
	(kg)*	9.57	0,00	0.22	0.00	0.12	6.40	0.00	0.12	16.44
	Individual	0.07	120.00	0.50	2.50	57.08	DOMESTIC ASSESSMENT	THE PARTY OF	THE R. LEWIS CO., LANSING, MICH.	A THE LAND RATE
	Sample Results	0.06	266.67	0.03	1.37	44.33				
		0.12	126.67	0.08	2.50	0.40	ALL PROPERTY OF THE PARTY OF TH	A STATE OF THE STA		
	(ppm) Average	0.00	116.67	0.04	0.83	0.24				
	Sample					1	CONTRACTOR OF THE PARTY OF THE		SEE THE SEE	
	Results								1000	
	(ppm)	0.06	157.50	0.16	1.80	25.51	The state of the state of		SO THE SECOND	
	Waste	0.00	107.00	0.10	1.00	23.31	N. CO.			
	Volume								S. F.E.	
March-12	(gallons/m			1		1			10 C	
	onth)	74,614,421	0	732,140	78,000	36,740	TO BOTH BOTH BOTH		1.646	
	Waste	,		102,170	10,000	30,140		CHO CONTRACTOR		
	Amount						NAME OF BELLEVIOLE		1888	
		282,856,486	0	2,775,476	212,602	139,278			DEVISION NO.	
	(kg) Monthly			.,,,,,,,,,	212,002					The state of the s
	EOL	1								
	Benzene	1				1 1				
	Quantity			1		1 1	I		i I	
	- Camillary									

\*For non-detect results, 1/2 the detection limit is used in the calculated quantity.

8.69

0.52

4.81

40.30 0.00

Quarterly Benzene totals (kg):

First
Quarter
EOL
Benzene First Quarter EOL
Quantity Benzene Quantity
(Mg): 0.13537 (Kg): 135.37

76.48

4.12

0.45

135.37

#### Table 10 BWON Inspections - First Quarter 2012 Michigan Refining Division

Complex	Unit	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
5	34	1/11/2012	JB NW of Tank 113	Replace Lid	Replace Lid	Lid Replaced	1/26/2012
1	5	1/16/2012	BWON Used/Slop Oil Drum 1-1	Latch Lid	Latch Lid	Lid Latched	1/16/2012
1	5	1/16/2012	BWON Used/Slop Oil Drum 1-3	Latch Lid	Latch Lid	Lid Latched	1/16/2012
1	29	1/16/2012	API Roof Drains	Replace Drains	Replace Drains	Drains Replaced	1/30/2012
N/A	N/A	1/23/2012	BWON Used/Slop Oil Drum M-1	Latch Lid	Latch Lid	Lid Latched	1/23/2012
N/A	N/A	1/26/2012	BWON Used/Slop Oil Drum M-3	Latch Lid	Latch Lid	Lid Latched	1/26/2012
3	N/A	1/26/2012	BWON Used/Slop Oil Drum 3-2	Latch Lid	Latch Lid	Lid Latched	1/26/2012
1	29	1/31/2012	BWON Used/Slop Oil Drum 1-3	Caulk Pinhole	Caulk Pinhole	Pinhole Caulked	2/14/2012
5	34	2/20/2012	Water Draw N Side of Tank 128	Latch Lid	Latch Lid	Lid Latched	2/20/2012
N/A	29	2/23/2012	Access Hatch #41194	Latch Lid	Latch Lid	Lid Latched	2/23/2012
N/A	N/A	2/29/2012	BWON Used/Slop Oil Drum M-2	Latch Lid	Latch Lid	Lid Latched	2/29/2012
2	N/A	3/28/2012	BWON Used/Slop Oil Drum 2-3	Latch Lid	Latch Lid	Lid Latched	3/28/2012
1	N/A	3/29/2012	BWON Used/Slop Oil Drum 1-9	Latch Lid	Latch Lid	Lid Latched	3/29/2012
2	N/A	3/29/2012	BWON Used/Slop Oil Drum 2-4	Latch Lid	Latch Lid	Lid Latched	3/29/2012